

DEPARTMENT OF THE NAVY  
FISCAL YEAR (FY) 2000/2001 BIENNIAL BUDGET  
ESTIMATES



JUSTIFICATION OF ESTIMATES  
FEBRUARY 1999

PROCUREMENT OF AMMUNITION,  
NAVY AND MARINE CORPS  
BUDGET ACTIVITY 1

## UNCLASSIFIED

## Department of the Navy

## FY 2000/2001 Procurement Program

Exhibit P-1

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps

DATE: February 1999

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 2000 UNIT COST	TOA, \$ IN MILLIONS								S E C
				-----FY 1998-----		-----FY 1999-----		-----FY 2000-----		-----FY 2001-----		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 01: Navy Ammunition												
-----												
Navy Ammunition												
1	0145 General Purpose Bombs	A			16.6		31.7		77.9		25.0	U
2	0148 JDAM	B	45,303	547	25.1	745	37.8	785	35.6	641	29.6	U
3	0150 2.75 Inch Rockets	A			15.5		16.1		21.2		21.6	U
4	0155 Machine Gun Ammunition	A			9.4		8.8		9.2		10.3	U
5	0160 Practice Bombs	A			46.5		55.0		49.1		54.7	U
6	0180 Cartridges & Cart Actuated De A				24.0		25.9		26.8		27.3	U
7	0181 Aircraft Escape Rockets	A			8.2		10.3		10.5		10.7	U
8	0182 Air Expendable Countermeasure A				22.2		28.9		34.3		43.1	U
9	0184 Marine Location Markers	A			.6		1.3		-		-	U
10	0194 JATOS	A			4.4		3.9		5.0		5.0	U
11	0250 5 Inch/54 Gun Ammunition	A			49.1		21.8		15.8		19.6	U
12	0253 Extended Range Guided Munitio B				-		27.4		3.0		24.5	U
13	0260 CIWS Ammunition	A			.5		.7		-		-	U
14	0265 76mm Gun Ammunition	A			3.4		3.8		7.0		8.8	U
15	0270 Other Ship Gun Ammunition	A			4.4		4.5		5.8		6.7	U

\* ITEMS UNDER \$50,000

UNCLASSIFIED

## UNCLASSIFIED

## Department of the Navy

## FY 2000/2001 Procurement Program

Exhibit P-1

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps

DATE: February 1999

			TOA, \$ IN MILLIONS									
LINE	ITEM NOMENCLATURE	IDENT	(DOLLARS)	-----FY 1998-----		-----FY 1999-----		-----FY 2000-----		-----FY 2001-----		S
NO		CODE	FY 2000 UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	E
----	-----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----
BUDGET ACTIVITY 01: Navy Ammunition												
-----												
Navy Ammunition												
16	0335 Small Arms & Landing Party Am	A			7.6		7.7		8.0		8.8	U
17	0340 Pyrotechnic and Demolition	A			10.0		8.9		8.2		8.4	U
18	0350 Mine Neutralization Devices	A			6.2		7.8		9.2		9.5	U
19	0400 Ammunition less than \$5 milli				-		-		2.2		1.3	U
				-----		-----		-----		-----		
TOTAL Navy Ammunition					253.5		302.2		328.7		314.9	

\* ITEMS UNDER \$50,000

UNCLASSIFIED

## UNCLASSIFIED

## Department of the Navy

## FY 2000/2001 Procurement Program - Reserve Component

Exhibit P-1R

APPROPRIATION: 1508N Procurement of Ammunition, Navy/Marine Corps

DATE: February 1999

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 2000 UNIT COST	TOA, \$ IN MILLIONS								S E C
				-----FY 1998-----		-----FY 1999-----		-----FY 2000-----		-----FY 2001-----		
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
BUDGET ACTIVITY 01: Navy Ammunition												
-----												
Navy Ammunition												
1	0145 General Purpose Bombs(RESERVE A				.1		.1		.1		.1	U
2	0150 2.75 Inch Rockets(RESERVE) A				.1		.1		.1		.1	U
3	0155 Machine Gun Ammunition(RESERV A				.3		.3		.3		.3	U
4	0160 Practice Bombs(RESERVE) A				3.3		2.6		2.5		2.5	U
5	0184 Marine Location Markers(RESER A				-		.*		-		-	U
6	0194 JATOS(RESERVE) A				.1		.*		.1		.1	U
7	0260 CIWS Ammunition(RESERVE) A				.*		.*		-		-	U
8	0265 76mm Gun Ammunition(RESERVE) A				.*		.*		.*		.*	U
9	0270 Other Ship Gun Ammunition(RES A				.*		.*		.1		.1	U
10	0335 Small Arms & Landing Party Am A				.1		.1		.1		.1	U
11	0340 Pyrotechnic and Demolition(RE A				.1		.1		.1		.1	U
12	0400 Ammunition less than \$5 milli				-		-		.*		.*	U
TOTAL Navy Ammunition					4.0		3.4		3.3		3.3	

\* ITEMS UNDER \$50,000

UNCLASSIFIED

Procurement of Ammunition, Navy & Marine Corps  
Program and Financing (in Thousands of dollars)

		Budget Plan (amounts for PROCUREMENT actions programed)			
Identification code	17-1508-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
-----					
Program by activities:					
Direct program:					
00.0101	Proc Ammo, Navy	253,514	302,205	328,724	314,880
00.0201	Proc Ammo, MC	122,354	180,998	156,176	164,920
		-----	-----	-----	-----
00.9101	Total direct program	375,868	483,203	484,900	479,800
		-----	-----	-----	-----
01.0101	Reimbursable program	3,740	10,000	10,000	10,000
		-----	-----	-----	-----
10.0001	Total	379,608	493,203	494,900	489,800
-----					
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	-3,740	-10,000	-10,000	-10,000
17.0001	Recovery of prior year obligations				
Unobligated balance available, start of year:					
21.4002	For completion of prior year budget plans				
21.4003	Available to finance new budget plans	-400	-12,560		
21.4009	Reprogramming from/to prior year budget plans	-163			
Unobligated balance available, end of year:					
24.4002	For completion of prior year budget plans				
24.4003	Available to finance subsequent year budget plans	12,560			
25.0001	Unobligated balance expiring	163			
		-----	-----	-----	-----
39.0001	Budget authority	388,028	470,643	484,900	479,800
-----					
Budget authority:					
40.0001	Appropriation	397,147	483,203	484,900	479,800
40.3601	Appropriation rescinded (unob bal)		-12,560		
40.7601	Reduction pursuant to P.L. 105-56 (-), 8041	-6,969			
41.0001	Transferred to other accounts (-)	-2,200			
42.0001	Transferred from other accounts	50			
		-----	-----	-----	-----
43.0001	Appropriation (adjusted)	388,028	470,643	484,900	479,800
-----					
Relation of obligations to outlays:					
71.0001	Obligations incurred				
72.1001	From Federal sources: Receivables and unpaid, unfilled orders, SOY				
72.4001	Obligated balance, start of year				
74.1001	From Federal sources: Receivables and unpaid, unfilled orders, EOY				
74.4001	Obligated balance, end of year				
77.0001	Adjustments in expired accounts (net)				
78.0001	Adjustments in unexpired accounts				
-----					
90.0001	Outlays (net)				
-----					

Procurement of Ammunition, Navy & Marine Corps  
Program and Financing (in Thousands of dollars)

Obligations

Identification code	17-1508-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
-----					
Program by activities:					
Direct program:					
00.0101	Proc Ammo, Navy	251,117	232,725	306,193	313,906
00.0201	Proc Ammo, MC	140,334	159,793	147,221	167,000
		-----	-----	-----	-----
00.9101	Total direct program	391,451	392,518	453,414	480,906
01.0101	Reimbursable program	4,843	13,000	10,740	10,000
		-----	-----	-----	-----
10.0001	Total	396,294	405,518	464,154	490,906
-----					
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	-10,962	-10,000	-10,000	-10,000
17.0001	Recovery of prior year obligations	-18,360			
Unobligated balance available, start of year:					
21.4002	For completion of prior year budget plans	-45,884	-54,615	-142,300	-173,046
21.4003	Available to finance new budget plans	-400	-12,560		
21.4009	Reprogramming from/to prior year budget plans				
Unobligated balance available, end of year:					
24.4002	For completion of prior year budget plans	54,615	142,300	173,046	171,940
24.4003	Available to finance subsequent year budget plans	12,560			
25.0001	Unobligated balance expiring	163			
		-----	-----	-----	-----
39.0001	Budget authority	388,028	470,643	484,900	479,800
-----					
Budget authority:					
40.0001	Appropriation	397,147	483,203	484,900	479,800
40.3601	Appropriation rescinded (unob bal)		-12,560		
40.7601	Reduction pursuant to P.L. 105-56 (-), 8041	-6,969			
41.0001	Transferred to other accounts (-)	-2,200			
42.0001	Transferred from other accounts	50			
		-----	-----	-----	-----
43.0001	Appropriation (adjusted)	388,028	470,643	484,900	479,800
-----					
Relation of obligations to outlays:					
71.0001	Obligations incurred	385,332	395,518	454,154	480,906
72.1001	From Federal sources: Receivables and unpaid, unfilled orders, SOY	6,425	8,652	8,652	8,652
72.4001	Obligated balance, start of year	370,187	507,523	491,852	535,140
74.1001	From Federal sources: Receivables and unpaid, unfilled orders, EOY	-8,652	-8,652	-8,652	-8,652
74.4001	Obligated balance, end of year	-507,523	-491,852	-535,140	-584,600
77.0001	Adjustments in expired accounts (net)	-1,066			
78.0001	Adjustments in unexpired accounts	-18,360			
		-----	-----	-----	-----
90.0001	Outlays (net)	226,344	411,189	410,866	431,446
-----					

Procurement of Ammunition, Navy & Marine Corps  
Object Classification (in Thousands of dollars)

Identification code	17-1508-0-1-051	1998 actual	1999 est.	2000 est.	2001 est.
-----					
Direct obligations:					
125.101	Advisory and assistance services		200	200	200
	Purchases goods/services from Government accounts				
125.301	Purchase of goods/services from Government accounts	13,709	34,894	21,921	38,199
125.303	Purchases from revolving funds	136,796	116,736	101,361	114,964
131.001	Equipment	240,946	240,688	329,932	327,543
		-----	-----	-----	-----
199.001	Total Direct obligations	391,451	392,518	453,414	480,906
Reimbursable obligations:					
	Purchases goods/services from Government accounts				
225.303	Purchases from revolving funds	4,843	10,000	10,000	10,000
231.001	Equipment		3,000	740	
		-----	-----	-----	-----
299.001	Total Reimbursable obligations	4,843	13,000	10,740	10,000
999.901	Total obligations	396,294	405,518	464,154	490,906
		-----	-----	-----	-----

Comparison of FY 1999 Program Requirements as Reflected  
in the FY 2000/FY 2001 Budget with FY 1999 Program Requirements as  
Shown in the FY 1999 Budget Request (In Thousands of Dollars)

	FY 1999 Total Program Requirements <u>Per FY 1999 Budget</u>	FY 1999 Program Requirements <u>Per FY 2000 Budget</u>	Increase (+) or Decrease (-)
BA 1: Navy Ammunition	282,866	302,205	+19,339
BA 2: Marine Corps Ammunition	146,673	180,998	+34,325
Subtotal Direct Program	429,539	483,203	+53,664
Reimbursable	10,000	10,000	0
Total Fiscal Year	439,539	493,203	+53,664

BA 1: The FY 1999 President's Budget reflected \$282.866 million for Navy ammunition procurement in the Procurement of Ammunition Navy & Marine Corps (PANMC) appropriation (BA1). The Congress added \$9.0 million for General Purpose Bombs and \$15.0 million for Practice Bombs, and rescinded \$3.3 million for procurement of Joint Direct Attack Munitions (JDAM). Additionally, the Congress reduced funding as follows: Section 8054 Contract Advisory and Assistance Services (-\$0.736 million); and Revised Economic Assumptions (-\$0.625 million).

BA 2: The FY 1999 President's Budget reflected \$146.673 million for Marine Corps ammunition procurement in the Procurement of Ammunition Navy & Marine Corps (PANMC) appropriation (BA2). The Congress added funding as follows: 5.56mm All Types (+\$0.5 million); 7.62mm All Types (+\$0.7 million); 0.50 Caliber Ammunition (+\$0.5 million); 60mm All Types (+\$7.0 million); 120mm All Types (+\$2.0 million); 120mm TPCSDS-T M865 (+\$0.5 million); 120mm TP-T M831 (+\$0.7 million); CTG 25mm All Types (+\$0.9 million); 9mm All Types (+\$0.8 million); Grenades All Types (+\$1.0 million); Rockets All Types (+\$18.0 million); Demolition Munitions All Types (+\$0.6 million); and Fuze All Types (+\$1.5 million). Additionally, the Congress reduced funding as follows: Revised Economic Assumptions (-\$0.375).

Reimbursable Orders: The FY 1999 President's Budget contained \$10 million for Reimbursable Authority. This amount remains unchanged in the FY 2000 President's Budget.



Comparison of FY 1999 Financing as Reflected in the FY 1999/FY 2000 Budget  
with FY 1999 Financing as Shown in FY 2000 Budget Request  
(In Thousands of Dollars)

	FY 1999 Financing Per <u>FY 1999 Budget</u>	FY 1999 Financing Per <u>FY 2000 Budget</u>	<u>Increase(+)</u> <u>Decrease(-)</u>
Program Requirements (Total)	439,539	493,203	+53,664
Program Requirements (Direct)	(429,539)	(483,203)	(+53,664)
Program Requirements (Reimb)	(10,000)	(10,000)	(0)
Less:			
Anticipated Reimbursements	10,000	10,000	(0)

Explanation of Changes in Financing

The +\$53.664 million change in program requirements is the result of Congressional increases (+\$58.7 million), Congressional rescission of JDAM funds (-\$3.3 million), and Congressional undistributed reductions: Section 8054 Contract Advisory and Assistance Services (-\$0.736 million); and Revised Economic Assumptions (-\$1.0 million).

Comparison of FY 1998 Program Requirements as Reflected  
in the FY 1999/FY 2000 Budget with FY 1998 Program  
Requirements as Shown in FY 2000 Budget Request  
(In Thousands of Dollars)

	FY 1998 Total Program Requirements <u>Per FY 1999 Budget</u>	FY 1998 Total Program Requirements <u>Per FY 2000 Budget</u>	Increase (+) or Decrease (-)
BA 1: Navy Ammunition	257,018	253,514	-3,504
BA 2: Marine Corps Ammunition	124,560	122,354	-2,206
Subtotal Direct Program	381,578	375,868	-5,710
Reimbursable	10,000	10,000	0
Total Fiscal Year	391,578	385,868	-5,710

BA 1: Changes reflect minor below threshold reprogrammings (+\$0.056 million) and JDAM Congressional Recission (-\$3.560 million).

BA 2: Changes reflect minor below threshold reprogrammings (-\$0.006 million) and Reclassification Reprogramming from PANMC to O&MMC (-\$2.200 million) for SMAW Launcher Improvements.

Comparison of FY 1998 Financing as Reflected in the FY 1999/FY 2000 Budget  
with FY 1998 Financing as Shown in FY 2000 Budget Request  
(In Thousands of Dollars)

	FY 1998 Financing Per <u>FY 1999 Budget</u>	FY 1998 Financing Per <u>FY 2000 Budget</u>	Increase (+) Decrease (-)
Program Requirements (Total)	391,578	385,868	-5,710
Program Requirements (Direct)	(381,578)	(375,868)	(-5,710)
Program Requirements (Reimb)	(10,000)	(10,000)	(0)
Less:			
Anticipated Reimbursements	10,000	10,000	(0)

Explanation of Changes in Financing

Direct Program: Changes reflect minor below threshold reprogrammings (+\$0.050 million), JDAM Congressional Recission (-\$3.560 million), and Reclassification Reprogramming from PANMC to O&MMC (-\$2.200 million) for SMAW Launcher Improvements.

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: <b>FEBRUARY 1999</b>																							
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>								P-1 ITEM NOMENCLATURE <b>General Purpose Bombs</b>																							
Program Element for Code B Items: <b>B.A.1 - Navy Ammunition</b>								Other Related Program Elements																							
	Prior Years *	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total																			
QUANTITY																															
COST (In Millions)	<b>121.4</b>		<b>\$16.6</b>	<b>\$31.7</b>	<b>\$77.9</b>	<b>\$25.0</b>	<b>\$22.4</b>	<b>\$22.9</b>	<b>\$23.4</b>	<b>\$23.9</b>	<b>Cont</b>	<b>Cont</b>																			
<p><u>GBU-24/BLU-109</u>: Operation Desert Storm revealed an urgent USN/USMC requirement for a 2000lb moderate to hard target penetrator weapon. Based upon Operations Requirements submitted by the fleet CINCs, a product improvement program (PIP) was initiated to provide the USAF GBU-24/BLU-109 to the Fleet. The USN version consists of a 2000lb class BLU-109 warhead filled with approximately 535lbs of PBXN-109, a WGU-39 guidance and control unit, an FMU-143E/B tail fuse (with a less IM sensitive PBXN-7 booster and lead), FZU-32 arming unit, ADG-770 adapter group, and BSU-84 AFG. The FMU-143E/B fuse and BLU-109 warhead transitioned to the Single Manager for Conventional Ammunition in FY 95.</p> <p>FY 98 PES/ILS includes a \$4.5M reprogramming to conduct engineering efforts on the Enhanced GBU-24 E/B to meet operational requirements on collateral damage avoidance.</p> <p>FY 99, 00, FMU 139 rebooster program - The FMU 139 fuses are required for the 1,000 LB Laser Guided Bomb and will be procured from inventory. This program will replace the explosive to increase safety.</p> <p>The Product Improvement Program (PIP) is used to continue investigation regarding hardware coating materials necessary in meeting the Environment Protection Agency's more stringent requirements.</p> <p>In FY 99 the MK 84 (2000LB) PBXN 109 and LGB Air Foils are procured to replace Non-combat expenditures, maintain war reserve, and to support both live and inert 500 lb training.</p> <p><u>PES/ILS</u>: Production engineering support (PES) and Integrated logistics support (ILS) are continuing efforts in support of the procurement of GP bombs and ancillary components. These efforts include providing recommendations and assisting in rapid resolution of maintenance procedure discrepancies to achieve optimum asset readiness, i.e., audits, pre-award surveys, post award surveys, post award conferences, First Article Testing or any other actions required to address technical problems which may arise. These funds are provided in parallel with the FY 99, FY 00 and FY 01 procurements of end items.</p> <table style="width: 100%; margin-top: 20px;"> <tr> <td></td> <td style="text-align: center;"><u>98</u></td> <td style="text-align: center;"><u>99</u></td> <td style="text-align: center;"><u>00</u></td> <td style="text-align: center;"><u>01</u></td> <td style="text-align: center;"><u>02</u></td> <td style="text-align: center;"><u>03</u></td> <td style="text-align: center;"><u>04</u></td> <td style="text-align: center;"><u>05</u></td> </tr> <tr> <td>Navy Reserves</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> <td style="text-align: center;">.1</td> </tr> </table>															<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>	Navy Reserves	.1	.1	.1	.1	.1	.1	.1	.1
	<u>98</u>	<u>99</u>	<u>00</u>	<u>01</u>	<u>02</u>	<u>03</u>	<u>04</u>	<u>05</u>																							
Navy Reserves	.1	.1	.1	.1	.1	.1	.1	.1																							

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS										DATE:		
P-40a										FEBRUARY 1999		
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE					
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000)							GENERAL PURPOSE BOMBS (Y1Q2)					
Procurement Items	ID Code	Prior Years *	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	To Total
BSU-86/B Retard Fin												
QTY								4,279	6,588	6,764		
Funding			\$0	\$0	\$0	\$0	\$0	\$3,000	\$4,734	\$4,982		
MK 83 Conical Fins												
QTY					7,194	12,678	2,584	2,512				
Funding			\$0	\$0	\$1,395	\$2,513	\$524	\$522	\$0	\$0		
LGB AFG												
QTY				1,384	1,821							
Funding			\$0	\$8,454	\$11,290	\$0	\$0	\$0	\$0	\$0		
LGB Guidance Unit												
QTY					1,821							
Funding			\$0	\$0	\$41,701	\$0	\$0	\$0	\$0	\$0		
MK 84 (2000LB) TP												
QTY				600	1,611	1,840	1,776	1,476	1,388	1,404		
Funding			\$0	\$5,460	\$14,807	\$17,081	\$16,651	\$13,977	\$13,275	\$13,562		
DSU-33 Prox Fuze												
QTY			3,240									
Funding			\$7,776	\$0	\$0	\$0	\$0	\$0	\$0	\$0		

P-1 SHOPPING LIST

\* FY 95, FY 96/FY 97 only. Prior to FY 95, Program was budgeted under WPN.

**CLASSIFICATION: UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS										DATE:		
P-40a										FEBRUARY 1999		
APPROPRIATION/BUDGET ACTIVITY							P-1 ITEM NOMENCLATURE					
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000)							GENERAL PURPOSE BOMBS (Y1Q2)					
Procurement Items	ID Code	Prior Years *	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Complete	To Total
GBU 24 KITS												
QTY				93								
Funding				\$8,372								
Other Support			\$8,858	\$9,381	\$8,722	\$5,387	\$5,265	\$5,435	\$5,408	\$5,344		
Total P-1 Funding		\$121,383	\$16,634	\$31,667	\$77,915	\$24,981	\$22,440	\$22,934	\$23,417	\$23,888	Cont	Cont

DD Form 2454, JUN 86

ITEM NO. 1

PAGE NO. 3

CLASSIFICATION: UNCLASSIFIED

\* FY 95, FY 96/FY 97 only. Prior to FY 95, Program was budgeted under WPN.

CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5			Weapon System				DATE: FEB1999					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition			ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD GENERAL PURPOSE BOMBS (Y1Q2)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS - NUMBERS IN ( ) ADD TO SUBTOTALS									
			Prior Years	FY 1998			FY 1999			FY 2000		
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost
	<b>PROCUREMENTS</b>											
Q2030	MK-83 Conical Fins (F642)	A								7,194	193.91	1,395
Q2170	<u>GBU 24 KITS SUBTOTAL</u>							8,372				
	GBU-24 AFG/BSU84/B Airfoils	A					93	14,906.00	(1,386)			
	GBU-24 ADG 770A/B Adapters	A					93	4,325.00	(402)			
	GBU-24 WGU39A/B Guidance Unit	A					93	70,796.00	(6,584)			
Q2180	<u>LGB KITS SUBTOTAL</u>							8,454				52,991
	LGB CCG-MAU-169 Guidance Unit	A								1821	22900.00	(41701)
	LGB AIR FOILS (MXU-651/B)	A					100	6,224.96	(622)			
	LGB AIR FOILS (MXU-667/B)	A					1,284	6,100.00	(7832)	1821	6200.00	(11290)
Q2TBD	MK 84 (2000# Bomb) PBXN 109	A					600	9,100.00	5460	1611	9191.00	14807
Q2190	DSU-33 Proximity Fuze	A		3,240	2400.00	7,776						
<b>PROCUREMENT SUPPORT AND OTHER COSTS</b>												
Q2800	<u>ILS SUBTOTAL</u>					703		588				625
	ILS (GP Bombs)					(303)		(388)				(400)
	ILS (GBU-24)					(400)		(200)				(225)
Q2830	<u>PES/NAVY SUBTOTAL</u>					6,964		3,390				3,948
	PES (GP Bombs)					(5,615)		(1644)				(2338)
	PES (GBU-24)					(1,349)		(1746)				(1610)
Q2830	PES/ARMY					15		253				497
Q2850	PIP					652		100				100
Q2850	FMU 139 Fuze (Rebooster) PIP							4,500				3,002
Q2892	Non Standard Items							100				100
Q2893	Renovation Components					274		200				200
Q2894	Gaging					250		250				250
<b>TOTAL</b>			<b>121,383</b>			<b>16,634</b>		<b>31,667</b>				<b>77,915</b>

**CLASSIFICATION: UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System		A. DATE		<b>Feb-99</b>	
<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b> <b>B.A.1 - Navy Ammunition</b>					<b>C. P-1 ITEM NOMENCLATURE</b> <b>General Purpose Bombs</b>				<b>SUBHEAD</b> <b>Y1Q2</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>GBU-24 COMPONENTS</u>										
<u>Q2170 BSU-84B/B AFG</u>										
FY 95	221	15,918.43	Hill AFB	Apr 96	SS/FPoption	Raytheon	Jun-96	Apr-99	YES	
FY 96	279	15,918.43	Hill AFB	Apr 96	SS/FPoption	Raytheon	Jun-96	May-99	YES	
FY 99	93	14,906.00	Hill AFB	Apr 96	SS/FPoption	Raytheon	Sep-99	Jun-00	YES	
<u>Q2170 WGU-39A/B G&amp;C UNIT</u>										
FY 95	221	75,561.97	Hill AFB	Apr 96	SS/FPoption	Raytheon	Jun-96	Apr-99	YES	
FY 96	279	75,561.97	Hill AFB	Apr 96	SS/FPoption	Raytheon	Jun-96	May-99	YES	
FY 99	93	70,796.00	Hill AFB	Apr 96	SS/FPoption	Raytheon	Sep-99	Jun-00	YES	
<u>Q2170 ADG770A/B Adapter</u>										
FY 99	93	4,325.00	Hill AFB	Apr 96	SS/FPoption	Raytheon	Sep-99	Jun-00	YES	
D. REMARKS										



CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE		Feb-99	
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE General Purpose Bombs				SUBHEAD Y1Q2		
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF No WHEN AVAILABLE	
Q2030 MK 83 Conical Fins											
FY97	33,235	326.04	Rock Island, IL	Feb-97	C/FP	MTD	Oct-97	Nov-98	YES		
FY00	7,194	193.91	Rock Island, IL	TBD	C/FP	Unknown	Apr 00	Apr 01	YES		
Q2TBD MK 84 (2000LB)											
FY99 *	600	9,100.00	Rock Island, IL	TBD	C/FP	Unknown	Jul-99	Sep-00	NO	Apr-99	
FY00	1,611	9,191.00	Rock Island, IL	TBD	C/FP	Unknown	Jul-00	Apr 01	NO	Apr-99	
Q2180 LGB											
FY97(MXU-667/B)	402	6,467.66	Hill AFB	May-97	SS/FP	Raytheon	Jul-97	Dec-98	YES		
FY99(MXU-651/B)	100	6,224.96	Hill AFB	TBD	SS/FP	Raytheon	Oct-99	Jun-00	YES		
FY99(MXU-667/B)	1,284	6,100.00	Hill AFB	TBD	SS/FP	Raytheon	Oct-99	Jun-00	YES		
FY00(MXU-667/B)	1,821	6,200.00	Hill AFB	TBD	SS/FP	Raytheon	Jul-00	Apr 01	YES		
FY 00 (MAU-169 G Unit)	1,821	22,900.00	Hill AFB	TBD	SS/FP	Raytheon	Jul-00	Apr 01	YES		
Q2190 DSU-33B/B											
FY 98	3,240	2,400.00	Eglin AFB	May-98	C/FP	Aliant Tech. Janesville, WI	Jun-98	Jan-99	YES		
D. REMARKS											
*MK-84 to be procured with PBXN-109 explosive, qualification tests and technical data preparation currently underway.											



BUDGET PRODUCTION SCHEDULE, P-21						DATE FEB 99																	
APPROPRIATION/BUDGET ACTIVITY						Weapon System						P-1 ITEM NOMENCLATURE											
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORP:												General Purpose Bombs											
		Production Rate				Procurement Leadtimes:																	
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure									
MK-83 Conical Fins	Unknown					7000	9000	15000		6	12		18	Thousands									
LGB AFG	Raytheon					88	220	390		9	9		18	Each									
MK 84 (2000LB) TP	Unknown					1200	2400	4800		6	12		18	Each									
DSU-33B/B	Aliant Tech, Janesville W					300	500	600		8	7		15	Thousands									
MAU -69 Guidance Unii	Raytheon					88	220	390		9	9		18	Each									

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Mk 83 Conical Fins		N																												
MTD	97		33.2	0	33.2		2.8	2.8	2.8	2.8	2.8		2.8	2.8	2.8	2.8	2.8	2.6	2.6											0
UNKNOWN	00		7.2	0	7.2																A								7.2	
MK 84 (2000LB) TP		N																												
UNKNOWN	99		600	0	600										A												100	500		
UNKNOWN	00		1611	0	1611																			A						
LGB AFG		N																												
Raytheon(MXU-667)	97		402	0	402			402																					0	
Raytheon (MXU-651)	99		100	0	100												A									35	35	30	0	
Raytheon(MXU-667)	99		1284	0	1284												A									126	126	126	780	
Raytheon(MXU-667)	00		1821	0	1821																					A			1,821	
Raytheon (MAU 169 G. Unit)	00		1821	0	1821																					A			1,821	
DSU-33B/B																														
Aliant Technology, Janesville, WI	98	N	3.2	0	3.2				0.3	0.5	0.6	0.6	0.6	0.6															0	

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												FISCAL YEAR 2002												B A L
						2000			CALENDAR YEAR 2001									CALENDAR YEAR 2002												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
MK 83 Conical Fin		N																												
UNKNOWN	00		7.2	0	7.2								0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0	
MK 84 (2000LB) TP		N																												
UNKNOWN	99		600	100	500	100	100	100	100	100																			0	
UNKNOWN	00		1611	0	1611								136	135	134	134	134	134	134	134	134	134	134	134	134	134	134	134	0	
LGB AFG		N																												
Raytheon(MXU-667)	99		1284	780	504	126	126	126	126																				0	
Raytheon(MXU-667/B)	00		1821	0	1821								150	150	150	150	150	150	150	150	150	150	150	150	150	171		0		
Raytheon (MAU 169 G. Unit)	00		1821	0	1821								150	150	150	150	150	150	150	150	150	150	150	150	150	171		0		

Remarks:

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40											DATE: February 1999	
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS/B.A. 1. Ammunition</b>							P-1 ITEM NOMENCLATURE <b>JOINT DIRECT ATTACK MUNITION</b>					
Program Element for Code B Items: <b>0204162N</b>							Other Related Program Elements <b>None</b>					
	Prior Years	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Program
QUANTITY	N/A	A	547	745	785	641	809	2,622	2,340	2,400	14,607	25,496
COST (\$M)			\$25.1	\$37.8	\$35.6	\$29.6	\$30.2	\$65.0	\$66.4	\$67.7	\$346.7	\$704.0
Initial Spares (\$M)			\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Total (\$M)	\$0.0		\$25.1	\$37.8	\$35.6	\$29.6	\$30.2	\$65.0	\$66.4	\$67.7	\$346.7	\$704.0
Unit Cost (\$M)			0.046	0.051	0.045	0.046	0.037	0.025	0.028	0.028	0.024	0.028
<p>MISSION AND DESCRIPTION Operation Desert Storm confirmed the need for a more accurate weapon delivery capability in adverse weather conditions and from medium/high altitudes. Failure to satisfy this requirement will allow the enemy to continue to take advantage of the sanctuary of weather and/or prevent US air power from prosecuting a conflict on its terms. JDAM is an Air Force and Navy munitions program to correct these shortfalls, with the Air Force as the executive service. JDAM will upgrade the existing inventory of general purpose bombs (MK 84, BLU-109/B, and MK 83) by integrating them with a guidance kit consisting of a global positioning system aided inertial navigation system (GPS/INS). JDAM will provide an accurate (13 meters) adverse weather capability. JDAM will initially be integrated with the B-52, B-2, B-1B and F/A-18C/D aircraft with follow-on integration on the F-16, F-15E, F-22 and other aircraft. The total production buy for JDAM is 87,496 units (62,000 for AF and 25,496 for Navy). No requirement for initial spares because of 20 year warranty.</p>												
Total Quantities			<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<u>FY04</u>	<u>FY05</u>		
USAF			1,655	1,782	5,410	10,404	9,908	9,803	10,039	7,848		
NAVY			547	745	785	641	809	2622	2340	2400		
TOTAL			2,202	2,527	6,195	11,045	10,717	12,425	12,379	10,248		

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5									Weapon System								DATE: February 1999		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/B.A. 1. Ammunition									ID Code B	P-1 ITEM NOMENCLATURE/SUBHEAD JOINT DIRECT ATTACK MUNITION									
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS																
			Prior Years	FY 1997			FY 1998			FY 1999			FY 2000			FY 2001			
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
	AIR VEHICLE	B	N/A				547	18,151	9,928	745	19,161	14,275	785	19,901	15,623	641	20,616	13,215	
	JOINT PROGRAMMABLE FUZE (JPF)	B				547	3,912	2,140	745	3,213	2,394	785	3,073	2,412	641	2,853	1,829		
	WARHEAD (1)					0	0	0	592	18,433	10,912	512	18,638	9,543	395	19,048	7,524		
	ENGINEERING CHANGE ORDERS (ECO)					0	0	0	745	560	418	785	583	458	641	618	396		
	TOTAL RECURRING FLYAWAY					547	22,063	12,068	745	37,583	27,999	785	35,715	28,036	641	35,826	22,964		
	PRODUCTION TECH SUPPORT							7,714			5,272			4,391			4,231		
	CONTRACTOR INCENTIVE							291			140			153			132		
	PRODUCTION TEST							1,057			1,275			639			586		
	DATA							0			169			72			34		
	BLU-109 CABLES							1,034			0			0			0		
	TOTAL NON-RECURRING							10,096			6,856			5,255			4,983		
	TOTAL WEAPON FLYAWAY					547	40,519	22,164	745	46,785	34,855	785	42,409	33,291	641	43,599	27,947		
	LOAD/BUILDUP TRAINERS							279			0			0			0		
	TEST EQUIPMENT (2)							1,321			1,261			1,261			660		
	ILS							1,045			1,207			648			596		
	TRAINING							183			375			312			374		
	DATA (TECHNICAL)							58			117			51			51		
	TOTAL FLEET SUPPORT							2,886			2,960			2,272			1,681		
	TOTAL WEAPON SYSTEM					547	45,795	25,050	745	50,758	37,815	785	45,303	35,563	641	46,222	29,628		
	INITIAL SPARES					0		0	0		0	0		0	0		0		
	TOTAL PROCUREMENT					547	45,795	25,050	745	50,758	37,815	785	45,303	35,563	641	46,222	29,628		
CONTROLS			0			0		25,050			37,815			35,563			29,628		

DD FORM 2446, JUN 86

P-1 SHOPPING LIST

ITEM NO. 2

PAGE NO. 2

CLASSIFICATION:

NOTE 1. QUANTITY AND COSTS ARE FOR BLU-109 WARHEADS ONLY. MK-84 AND MK-83 WARHEADS ARE IN EXISTING INVENTORY.

NOTE 2. TEST EQUIPMENT INCLUDES THE COST FOR THE COMMON MUNITIONS BIT REPROGRAMMABLE EQUIPMENT (CMBRE)

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5								Weapon System								DATE: February 1999			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/B.A. 1. Ammunition								ID Code B		P-1 ITEM NOMENCLATURE/SUBHEAD JOINT DIRECT ATTACK MUNITION									
COST CODE	ELEMENT OF COST																		
		FY 2002			FY 2003			FY 2004			FY 2005			To Complete		Total			
		Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Cost	Quantity	Cost		
	AIR VEHICLE	809	18,610	15,056	2,622	18,404	48,256	2,340	18,368	42,982	2,400	18,523	44,455	14,607	275,247	25,496	479,037		
	JOINT PROGRAMMABLE FUZE (JPF)	809	2,895	2,342	2,622	2,894	7,589	2,340	2,775	6,493	2,400	2,714	6,514	14,607	40,795	25,496	72,508		
	WARHEAD (1)	315	19,654	6,191	0	0	0	407	20,509	8,347	404	20,939	8,459	70	1,541	2,848	52,517		
	ENGINEERING CHANGE ORDERS (ECO)	809	544	440	2,622	538	1,410	2,340	536	1,255	2,400	541	1,298	14,607	8,030	25,496	13,705		
	TOTAL RECURRING FLYAWAY	809	29,702	24,029	2,622	21,836	57,255	2,340	25,247	59,077	2,400	25,303	60,726	14,607	325,613	25,496	617,767		
	PRODUCTION TECH SUPPORT			4,448			5,299			5,175			5,048		9,771		51,349		
	CONTRACTOR INCENTIVE			147			480			418			433		2,677		4,871		
	PRODUCTION TEST			618			792			573			330		381		6,251		
	DATA			45			128			116			148		1,206		1,918		
	BLU-109 CABLES			0			0			0			0		0		1,034		
	TOTAL NON-RECURRING			5,258			6,699			6,282			5,959		14,035		65,423		
	TOTAL WEAPON FLYAWAY	809	36,201	29,287	2,622	24,391	63,954	2,340	27,931	65,359	2,400	27,785	66,685	14,607	339,648	25,496	683,190		
	LOAD/BUILDUP TRAINERS			0			0			0			0		0		279		
	TEST EQUIPMENT (2)			0			0			0			0		0		4,503		
	ILS			460			701			669			675		6,343		12,344		
	TRAINING			379			296			287			293		624		3,123		
	DATA (TECHNICAL)			51			39			39			40		86		532		
	TOTAL FLEET SUPPORT			890			1,036			995			1,008		7,053		20,781		
	TOTAL WEAPON SYSTEM	809	37,302	30,177	2,622	24,786	64,990	2,340	28,356	66,354	2,400	28,205	67,693	14,607	346,701	25,496	703,971		
	INITIAL SPARES																		
	FY98 CONGRESSIONAL REINSTATEMENT																		
	FY00 NAVCOMP ADJUSTMENT																		
	TOTAL PROCUREMENT	0		0	0		0	0		0	0		0	0	0	0	0		
	TOTAL PROCUREMENT	809	37,302	30,177	2,622	24,786	64,990	2,340	28,356	66,354	2,400	28,205	67,693	14,607	346,701	25,496	703,971		
	CONTROLS			30,177			64,990			66,354			67,693		346,701		703,971		

DD FORM 2446, JUN 86

ITEM NO. 2

PAGE NO. 3

CLASSIFICATION:

NOTE 1. QUANTITY AND COSTS ARE FOR BLU-109 WARHEADS ONLY. MK-84 AND MK-83 WARHEADS ARE IN EXISTING INVENTORY.

NOTE 2. TEST EQUIPMENT INCLUDES THE COST FOR THE COMMON MUNITIONS BIT REPROGRAMMABLE EQUIPMENT (CMBRE)

**UNCLASSIFIED**

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE <b>February 1999</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS/B.A.1</b>					C. P-1 ITEM NOMENCLATURE <b>JOINT DIRECT ATTACK MUNITION</b>				SUBHEAD <b>Y1JD</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
FY98 JDAM	547	22,063	USAF ASC/YU EGLIN AFB, FL		FFP Option	Boeing St. Louis, MO	June 98	July 99	N/A <sup>(1)</sup>	N/A
FY99 JDAM	745	37,583	USAF ASC/YU EGLIN AFB, FL		TBD	Boeing St. Louis, MO	June 99	July 00	N/A <sup>(1)</sup>	N/A
FY00 JDAM	785	35,715	USAF ASC/YU EGLIN AFB, FL		TBD	Boeing St. Louis, MO	June 00	July 01	N/A <sup>(1)</sup>	N/A
FY01 JDAM	641	35,826	USAF ASC/YU EGLIN AFB, FL		TBD	Boeing St. Louis, MO	June 01	July 02	N/A <sup>(1)</sup>	N/A
D. REMARKS										
(1). SPECIFICATIONS HAVE BEEN WAIVED DUE TO JDAM's STATUS AS AN ACQUISITION REFORM PILOT PROGRAM.										





DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST  
 311 / 244 ITEM NO 2 PAGE 6 Exhibit P-21 Production Schedule

CLASSIFICATION:

**UNCLASSIFIED**

<b>Exhibit P-20, Requirements Study</b>				APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT AMMUNITION, NAVY &amp; MARINE CORP/B.A.1 Ammunition</b>			DATE: <b>February 1999</b>		
P-1 ITEM NOMENCLATURE <b>JOINT DIRECT ATTACK MUNITION</b>			Admin Leadtime (after Oct1):			Prod Leadtime :			
	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	
Buy Summary	<b>547</b>	<b>745</b>	<b>785</b>	<b>641</b>	<b>809</b>	<b>2400</b>	<b>2340</b>	<b>2400</b>	
Unit Cost (\$ in Millions) see note (1.)	<b>0.022</b>	<b>0.038</b>	<b>0.036</b>	<b>0.036</b>	<b>0.030</b>	<b>0.022</b>	<b>0.025</b>	<b>0.025</b>	
Total Cost (\$ in Millions) see note (2.)	<b>\$25.050</b>	<b>\$37.815</b>	<b>\$35.563</b>	<b>\$29.628</b>	<b>\$30.177</b>	<b>\$64.990</b>	<b>\$66.354</b>	<b>\$67.693</b>	
<b>Asset Dynamics</b>									
Beginning Asset Position	0	0	216	713	1566	2173	3173	5066	
Deliveries from all prior year funding	0	0	0	0	0	0	0	0	
Deliveries from FY 1997 funding	0	0	0	0	0	0	0	0	
Deliveries from FY 1998 funding	0	216	331	0	0	0	0	0	
Deliveries from FY 1999 funding		0	216	529	0	0	0	0	
Deliveries from subsequent years' funding		0	0	374	657	1050	1943	2061	
Other Gains									
Combat Losses/Usage									
Training/Test/Other Losses/Usage	0	0	50	50	50	50	50	50	
Disposals/Retirements/Attritions/etc.									
<b>End of Year Asset Position</b>	0	216	713	1566	2173	3173	5066	7077	
Inventory Objective:									
Combatant Shipfill									
Expenditures									
Training & Testing Rqmt									
Depot Maint. Pipeline									
Other									
Peacetime Pipeline									
TOTAL Inventory Objective:									
Approved Acquisition Objective									
		Remarks:							
Other than Training Usage	Actual Training Expenditures	NOTE 1 - SYSTEM HARDWARE UNIT COST INCLUDES JDAM TAIL KIT, JOINT PROGRAMMABLE FUZE, AND BLU-109 BOMB BODIES (MK 83/84 BOMB BODIES FROM INVENTORY).							
FY 1996 thru XXXXX:	FY 1996 thru 2003: 178 PLANNED	NOTE 2 - BLU-109 BOMB BODIES COST ARE INCLUDED FOR THE FOLLOWING QUANTITIES BY FY:							
FY 1995:	FY 1995: 0	FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05
FY 1994:	FY 1994: 0	0	592	512	395	315	0	407	404
FY 1993:	FY 1993: 0								

**UNCLASSIFIED**

**CLASSIFICATION:**

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1999				
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>						P-1 ITEM NOMENCLATURE <b>2.75 INCH ROCKETS (Y1Q3)</b>						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	17.5*	A	\$15.5	\$16.1	\$21.2	\$21.6	\$22.0	\$22.3	\$22.7	\$23.1	Continuing	Continuing
<p>Product Improvements address deficiencies in the safety, reliability and producibility of the 2.75 inch rocket system. Specific projects include continuation of insensitive munitions rocket motor compliance efforts.</p> <p>Funds provided in the FY 1998 and FY 1999 budget requests provide for procurement of MK 66 rocket motors to keep pace with training requirements, and continued procurements of M278 warhead. Initial procurement of the MK 67 warhead is planned in FY 1999.</p> <p>*Reflects FY95-FY97 only. These programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.</p>												
			FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05		
NAVY RESERVE			\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1		

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a							DATE: February 1999					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000's)						P-1 ITEM NOMENCLATURE 2.75 INCH ROCKETS (Y1Q3)						
Procurement Items	ID Code	Prior Years*	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
MK 66 RKT MTR (HA07)	A										Continuing	Continuing
Quantity		12568	15916	20578	32153	35404	43329	43134	33526	32950		
Funding		\$6,579.0	\$7,570.0	\$7,114.0	\$11,306.0	\$12,670.0	\$15,794.0	\$16,042.0	\$12,743.0	\$12,800.0		
M278 WARHEAD (HA06)	A											
Quantity		4144	4988	6352	6874	5915	2822	2421	6667	6796		
Funding		\$3,168.0	\$4,103.0	\$5,122.0	\$5,639.0	\$4,938.0	\$2,400.0	\$2,100.0	\$5,911.0	\$6,159.0		
MK 67 WARHEAD (H893)	A											
Quantity		-	-	1034	1053	519	-	-	-	-		
Funding		-	-	\$481.0	\$495.0	\$248.0	-	-	-	-		
Other Costs		\$7,800.0	\$3,802.0	\$3,358.0	\$3,789.0	\$3,789.0	\$3,770.0	\$4,192.0	\$4,043.0	\$4,096.0		
Total P-1 Funding		\$17,547.0	\$15,475.0	\$16,075.0	\$21,229.0	\$21,645.0	\$21,964.0	\$22,334.0	\$22,697.0	\$23,055.0	Continuing	Continuing
*Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.												

P-1 SHOPPING LIST

CLASSIFICATION:

**UNCLASSIFIED**

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CLASSIFICATION:

WEAPONS SYSTEM COST ANALYSIS P-5				Weapon System									DATE: February 1999		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & Marine Corps (\$000's)				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD  2.75 INCH ROCKETS (Y1Q3)										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years*	FY 1998			FY 1999			FY 2000					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
Q3040	MK 66 Rocket Motor (HA07)	A	6,579	15,916	475.62	7,570	20,578	345.70	7,114	32,153	351.63	11,306			
Q3070	M278 IR Illum. Warhead (HA06)	A	3,168	4,988	822.57	4,103	6,352	806.42	5,122	6,874	820.27	5,639			
Q3050	MK 67 Smoke Warhead (H893)	A	-	-	-	-	1,034	465.00	481	1,053	470.00	495			
Q3800	Integrated Logistics Support		427			140			300			160			
Q3830	Production Engineering Support(PES)		2,995			1,094			1,157			1,397			
Q3831	PES/ARMY**		-			-			821			1,018			
Q3850	Product Improvement Program		3,733			2,388			900			1,034			
Q3892	Non-Standard Items		120			40			40			40			
Q3893	Renovation Components		175			60			60			60			
Q3894	Gaging		160			80			80			80			
Q3899	Initial Training Packages		190												
*Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts. **Production Support is for Army Quality Assurance, Interim Transport & Industrial Stock Support															
			17,547			15,475			16,075			21,229			

DD FORM 2446, JUN 86

P-1 SHOPPING LIST  
ITEM NO. 3

PAGE NO. 3

CLASSIFICATION:

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CLASSIFICATION:

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System		A. DATE <b>February 1999</b>			
<b>B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>					<b>C. P-1 ITEM NOMENCLATURE 2.75 INCH ROCKETS</b>				<b>SUBHEAD Y1Q3</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
Q3040 MK 66 MOTORS										
FY 98 (HA07)	15916	475.62	ARMY IOC	N/A	C/FP	GENERAL DYNAMICS	Jul-98	Nov-99	YES	
FY 99 (HA07)	20578	345.70	ARMY IOC	N/A	UNK	UNKNOWN	Feb-99	Sep-00	YES	
FY 00 (HA07)	32153	351.63	ARMY IOC	N/A	UNK	UNKNOWN	May-00	Nov-01	YES	
Q3070 M278 WARHEAD (HA06)										
FY 98	4988	822.57	ARMY IOC	N/A	C/FP	THIOKOL	May-98	Nov-99	YES	
FY 99	6352	806.42	ARMY IOC	N/A	UNK	UNKNOWN	May-99	Nov-00	YES	
FY 00	6874	820.27	ARMY IOC	N/A	UNK	UNKNOWN	May-00	Nov-01	YES	
Q3TBD MK 67 WARHEAD (H893)										
FY 99	1034	465.00	ARMY IOC	N/A	UNK	UNKNOWN	May-99	Nov-00	YES	
FY 00	1053	470.00	ARMY IOC	N/A	UNK	UNKNOWN	May-00	Nov-01	YES	
D. REMARKS										
Pricing is provided by the Army and incorporates other services' buys. Production lead times have been changed to reflect current delivery schedules per IOC.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21														DATE		February 1999														
APPROPRIATION/BUDGET ACTIVITY										Weapon System		P-1 ITEM NOMENCLATURE																		
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS												2.75 INCH ROCKETS																		
		Production Rate				Procurement Leadtimes																								
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																
MK 66 RKT MTR (HA03/HA07)	GENERAL DYNAMICS					8	20	250		7	18	18	25	TH																
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999										FISCAL YEAR 2000										B A L				
						1998		CALENDAR YEAR 1999										1999		CALENDAR YEAR 2000										
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q3040-MK 66 RKT MTR																														
GENERAL DYNAMICS (HA03)	96	N	21.0	0.0	21.0	5	10	6																						0.0
GENERAL DYNAMICS (HA07)	97	N	11.2	0.0	11.2													11.2												0.0
GENERAL DYNAMICS (HA07)	98	N	15.9	0.0	15.9													1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4
UNK (HA07)	99	N	20.6	0.0	20.6					A																		1.9	18.7	
UNK (HA07)	00	N	32.2	0.0	32.2																		A						32.2	
ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001										FISCAL YEAR 2002										B A L				
						2000		CALENDAR YEAR 2001										CALENDAR YEAR 2002												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q3040-MK 66 RKT MTR (HA03)																														
GENERAL DYNAMICS (HA07)	98	N	15.9	14.5	1.4	1.4																								0.0
UNK (HA07)	99	N	20.6	1.9	18.7	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8																0.0
UNK (HA07)	00	N	32.2	0.0	32.2													2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.5
Remarks:																														
Production rates are provided by the Army and include other services' buys.																														

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										DATE February 1999	
APPROPRIATION/BUDGET ACTIVITY					Weapon System		P-1 ITEM NOMENCLATURE				
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS							2.75 INCH ROCKETS				
		Production Rate			Procurement Leadtimes						
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure	
M278 WARHEAD (HA06)	THIOKOL Ogden, UT	2	6	15		7	18	18	25	TH	
TBD-MK67 WARHEAD (H893)*	Unknown	UK	2	UK		7	18	18	25	TH	

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						CALENDAR YEAR 1999												CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q3070-M278 WARHEAD (HA06)																														
THIOKOL	97	N	2.1	0	2.1			.6	1.5																					
THIOKOL	98	N	5.0	0	5.0												.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.6			
UNK	99	N	6.4	0	6.4								A														6.4			
UNK	00	N	6.9	0	6.9															A							6.9			
TBD-MK67 WARHEAD (H893)																														
UNK	99	N	1.0	0.0	1.0								A														1.0			
UNK	00	N	1.1	0.0	1.1															A							1.1			

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												FISCAL YEAR 2002												B A L
						CALENDAR YEAR 2001												CALENDAR YEAR 2002												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q3070-M278 WARHEAD (HA06)																														
THIOKOL	98	N	5.0	4.4	0.6	.6																					0.0			
UNK	99	N	6.4	0	6.4		.5	.5	.5	.5	.5	.5	.5	.5	.6	.6	.6	.6									0.0			
UNK	00	N	6.9	0	6.9												.5	.5	.5	.6	.6	.6	.6	.6	.6	.6	.6			
TBD-MK67 WARHEAD (H893)																														
UNK	99	N	1.0	0.0	1.0		.2	.2	.2	.2	.2																0.0			
UNK	00	N	1.1	0.0	1.1												.2	.2	.2	.2	.2	.1					0.0			

Remarks: Production rates are provided by the Army and include other services' buys.  
 \*H893 is not in production. This will be a new procurement.



DD Form 2445, JUL 87	Previous editions are obsolete	P-1 SHOPPING LIST	
311 / 244		ITEM NO 3      PAGE 7	Exhibit P-21 Production Schedule

## CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1999					
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS (\$000's)</b>						P-1 ITEM NOMENCLATURE <b>MACHINE GUN AMMUNITION (Y1Q4)</b>						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years*	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	\$27.9	A	\$9.4	\$8.8	\$9.2	\$10.3	\$10.7	\$11.1	\$11.3	\$11.5	Continuing	Continuing
<p>This line funds procurement of 20MM and 25MM ammunition used with various aircraft gun systems. 20MM ammunition includes procurements of PGU-27/B (TP)(both bulk and linked cartridges). When employed in the bulk (linkless) condition these cartridges are used in the M61A1 gun systems in the F-14 and F/A-18 aircraft. When linked with the MK14 link, these cartridges are used in the M197 gun system in the AH-1 aircraft and in the GPU-2A gun pod. All 20MM ammunition is procured by the Army's Single Manager for Conventional Ammunition (SMCA) using Conventional Ammunition Working Capital Fund (CAWCF) standard prices. 25MM funds are for the PGU-32 Semi-Armor Piercing High Explosive Incendiary (SAPHEI) war fighting cartridge for the GAU-12 gun system in the AV-8/B aircraft.</p> <p>Funds requested through FY 99 for the Product Improvement Program (PIP) are required to: (1) restructure incorporation of a radiation safe primer to modify the M61/M197 gun systems to accept percussion or electrically primed ammunition; (2) correct anomalies in PGU 20MM ammunition; (3) conduct feasibility determination for the design of an aluminum cartridge case; and (4) complete the PIP on PGU-33 including verification of technical data package (TDP).</p> <p>PR99 partially restores POM 98 marks in FYs98-03 against PGU-27/B TP linked ammunition; however, planned procurements still do not meet fleet training requirements.</p> <p>*Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.</p> <p>Unfunded deficiencies are identified to meet acquisition objectives.</p>												
NAVY RESERVE				FY98 \$0.3	FY99 \$0.3	FY00 \$0.3	FY01 \$0.3	FY02 \$0.3	FY03 \$0.3	FY04 \$0.3	FY05 \$0.3	

**UNCLASSIFIED**

**CLASSIFICATION:**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a							DATE: February 1999					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000's)						P-1 ITEM NOMENCLATURE MACHINE GUN AMMUNITION (Y1Q4)						
Procurement Items	ID Code	Prior Years*	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
20MM LINKLESS	A										Continuing	Continuing
PGU-27/B (A678)												
Quantity		2686150	-	948980	1132932	1252268	1277907	1305513	1301673	1293807		
Funding		\$14,854.0	-	\$4,650.0	\$5,642.0	\$6,349.0	\$6,594.0	\$6,867.0	\$7,003.0	\$7,103.0		
20MM LINK, TP	A											
PGU-27/B (A772/A450)												
Quantity		665740	216853	252431	157576	300627	290307	281146	283013	290883		
Funding		\$4,259.0	\$1,737.0	\$1,921.0	\$988.0	\$1,918.0	\$1,887.0	\$1,864.0	\$1,916.0	\$2,010.0		
20MM PGU-28A/B LINKED (T	A											
Quantity			100723	-	46366	-	-	-	-	-		
Funding			\$1,393.0	-	\$638.0	-	-	-	-	-		
25MM SAPHEI PGU-32	A											
Quantity		125019	182092	-	-	-	-	-	-	-		
Funding		\$1,684.0	\$3,569.0	-	-	-	-	-	-	-		
Other Costs		\$7,090.0	\$2,651.0	\$2,185.0	\$1,885.0	\$2,034.0	\$2,236.0	\$2,321.0	\$2,366.0	\$2,399.0		
Total P-1 Funding		\$27,887.0	\$9,350.0	\$8,756.0	\$9,153.0	\$10,301.0	\$10,717.0	\$11,052.0	\$11,285.0	\$11,512.0		
*Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts												

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5													DATE:		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS				ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD  MACHINE GUN AMMUNITION (Y1Q4)										
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years****	FY 1998			FY 1999			FY 2000					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
Q4010	20MM LINKLESS PGU-27/B (A678)	A	14,854	-	-	-	948,980	4.90 *	4,650	1,132,932	4.98	5,642			
Q4030	20MM LINK, TP, PGU-27/B (A772/A450)	A	4,259	216,853	8.01	1,737	252,431	7.61	1,921	157,576	6.27	988			
Q4050	20MM PGU-28A/B LINKED (A764)**	A	0	100,723	13.83	1,393	-	-	-	46,366	13.76	638			
Q4150	25MM SAPHEI PGU-32 (A990)	A	1,684	182,092	19.60	3,569	-	-	-	-	-	-			
Q4800	Integrated Logistics Support		203			70			71			71			
Q4830	Prod. Engr. Sup.-Navy		4,472			1,736			1,266			1,120			
Q4831	Production Support-Army***		-			-			159			113			
Q4850	Product Improvement Program		2,360			845			689			581			
Q4894	Gaging		55			-			-						
*Lower price due to combined buy with Air Force.															
**The price of this item is a NAVAIR estimate.															
***Production Support is for Army Quality Assurance, Interim Transport & Industrial Stock Support															
****Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) accounts.															
Unit cost is anticipated to increase due to Industrial Stock Fund tax assessed by the Army.															
			27,887			9,350			8,756			9,153			

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CLASSIFICATION:

**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System		A. DATE <b>February 1999</b>		
B. APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>					C. P-1 ITEM NOMENCLATURE <b>MACHINE GUN AMMUNITION</b>				SUBHEAD <b>Y1Q4</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q4010 20MM LINKLESS PGU-27/B (A678)										
FY99	948980	4.90	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
FY00	1132932	4.98	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-00	Apr-01	YES	
Q4030 20MM LINK,TP, PGU-27/B (A772/A450)										
FY97 (A450)	399700	6.80	ARMY IOC	N/A	C/FP	PRIMEX, Marion IL	Jun-97	Feb-98	YES	
FY98 (A450)	216853	8.01	ARMY IOC	N/A	C/FP	UNKNOWN*	Feb-99	Oct-99	YES	
FY99 (A450)	252431	7.61	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-99	Apr-00	YES	
FY00 (A450)	157576	6.27	ARMY IOC	N/A	C/FP	UNKNOWN	Apr-00	Apr-01	YES	
Q4050 20MM PGU-28A/B (A764)										
FY98**	100723	13.83	ARMY IOC	N/A	C/FP	PRIMEX, Marion IL	Jun-99	Apr-00	YES	
FY00	46366	13.76	ARMY IOC	N/A	C/FP	PRIMEX, Marion IL	Jun-00	Apr-01	YES	
(A677 Provided as GFE)										
Q4150 25MM SAPHEI PGU-32 (A990)										
FY98	182092	19.60	NAWC CL (China Lake, CA)	Jul-98	C/FP	ALLIANT TECH (Hopkins, MN)	Sep-98	Oct-99	YES	
D. REMARKS										
Pricing is provided by the Army and incorporates other services' buys.										
*FY 98 is being competed between Lake City and Primex. J&A delayed, consequently FY98 and FY99 buys are being combined. Early delivery planned.										
**28 A/B GFE production delayed.										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										DATE <b>February 1999</b>																					
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>						Weapon System				P-1 ITEM NOMENCLATURE <b>MACHINE GUN AMMUNITION</b>																					
		Production Rate			Procurement Leadtimes																										
Item	Manufacturer's Name and Location		MSR	1-8-5	MAX	ALT Prior to Oct 1		ALT After Oct 1		Initial Mfg PLT		Reorder Mfg PLT		Total	Unit of Measure																
A678 20MM LINKLESS	LAKE CITY AAP / PRIMEX		25	1.2 / .270	3.5 / .790	6		6		12		12		18	TH																
A772/A450 20MM LINK	PRIMEX RATE		61	61	175	6		6		12		12		18																	
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999										FISCAL YEAR 2000										B A L				
							1998			CALENDAR YEAR 1999										CALENDAR YEAR 2000											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Q4010-20MM LINKLESS PGU-27/B (A678)																															
UNKNOWN		99	N	949.0	0.0	949.0							A												100	100	100	100	100	100	349.0
UNKNOWN		00	N	1,132.9	0.0	1,132.9																		A							1,132.9
Q4030-20MM LINK, PGU-27/B (A772/A450)																															
PRIMEX, Marion IL		97	N	399.7	331.1	68.6					68.6																				0.0
UNKNOWN		98	N	216.9	0.0	216.9					A								43.4	43.3	43.4	43.4	43.4							0.0	
UNKNOWN		99	N	252.4	0.0	252.4							A												50	50	50	50	52.4		0.0
UNKNOWN		00	N	157.6	0.0	157.6																		A							157.6
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001										FISCAL YEAR 2002										B A L				
							2000			CALENDAR YEAR 2001										CALENDAR YEAR 2002											
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	B A L
Q4010-20MM LINKLESS PGU-27/B (A678)																															
UNKNOWN		99	N	949	600	349	100	100	149																						0.0
UNKNOWN		00	N	1,132.9	0.0	1,132.9							94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.5						0.0	
Q4030-20MM LINK, PGU-27/B (A772/A450)																															
UNKNOWN		00	N	157.6	0.0	157.6							52.5	52.5	52.6																0.0
Remarks: Production rates are provided by the Army and include other services' buys.																															

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21										DATE <b>February 1999</b>																					
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>										Weapon System					P-1 ITEM NOMENCLATURE <b>MACHINE GUN AMMUNITION</b>																
		Production Rate					Procurement Leadtimes																								
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure																	
A677 20MM PGU-28/B	LAKE CITY AAP / PRIMEX					100	.173 / .200	.596 / .500	6	6	12	12	18	TH																	
A990 25MM PGU-32	ALLIANT TECH					UNK	80	160	6	6	12	12	18	TH																	
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
							1998			CALENDAR YEAR 1999									1999			CALENDAR YEAR 2000									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q4050-20MM PGU-28A/B LK (A764)																															
UNKNOWN		98	N	100.7	0.0	100.7								A													0.0				
UNKNOWN		00	N	46.4	0.0	46.4																					46.4				
Q4150-25MM PGU-32 (A990)																															
UNKNOWN		98	N	182.1	0.0	182.1																									
ITEM / MANUFACTURER		F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												FISCAL YEAR 2002												B A L
							2000			CALENDAR YEAR 2001												CALENDAR YEAR 2002									
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q4050-20MM PGU-28A/B LK (A764)		00	N	46.4	0.0	46.4									46.4														0.0		
Remarks:		*Option to FY98 procurement. Production rates are provided by the Army and include other services' buys.																													

CLASSIFICATION:UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: February 1999					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS							P-1 ITEM NOMENCLATURE Practice Bombs (Y1Q1)					
Program Element for Code B Items: B.A.1 - Navy Ammunition							Other Related Program Elements					
	Prior Years *	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	\$41.4		\$46.5	\$55.0	\$49.1	\$54.7	\$66.6	\$75.2	\$88.2	\$104.1	Cont	Cont
<p>Practice Bombs are a low cost alternative to expenditures of live bombs for training. The MK 76 simulates an unretarded MK 80 series bomb. It is a 25 lb. cast iron shape with a breach hole for a MK 4 or CXU-3 signal which provides a smoke signal or flash upon impact. The BDU-48 simulates retard bombs. It is a 10 lb. thin cased cylindrical bomb with a breach hole for a MK4 or CXU-3 Signal. The BDU-45 NTP and MK 83 Inert are full-sized Practice Bombs. They are MK 80 series bomb bodies filled with an inert material and have the same weight, size, center of gravity and ballistics as a live bomb. The BDU-45 uses a CXU-4 signal cartridge for spotting location and simulates a 500 lb G. P. Bomb. These items are procured by the Army as a Single Manager for Conventional Ammunition .</p> <p>The Laser Guided Training Round (LGTR) is procured directly by the Navy. This round enhances the effective use of the PAVEWAY II Laser Guided Bomb (LGB) precision guided weapon which requires coordination between the aircrew and the laser designator. Development of delivery options and multi-aircraft tactics requires extensive cost effective training. The Laser Guided Training Round (LGTR) is capable of replicating the kinematics of LGB's to provide an increased basic training capability and follow-on advanced tactics development. It is suitable for launch from all Navy and Marine Corps aircraft used to deploy LGB's. LGTR's provide actual hardware for aircrew and tactics development at a greatly reduced cost while maintaining LGB stockpiles.</p> <p>The Production Engineering Support and Integrated Logistics Support are continuing annualized efforts associated with ongoing procurements of the Practice Bombs associated Signal Cartridge, BDU-45/B, MK 76, LGTR, fins and other practice weapons. These efforts include maintenance of PDP (Procurement Data Packages), participation in post award conferences, first article and quality assurance testing; ECP review/comments/recommendations, technical manual update, evaluation of engineering change proposal, and response to fleet inquiries.</p>												
Navy Reserves			<u>98</u> 3.3	<u>99</u> 2.6	<u>00</u> 2.5	<u>01</u> 2.5	<u>02</u> 2.5	<u>03</u> 2.5	<u>04</u> 2.6	<u>05</u> 2.6		

P-1 SHOPPING LIST



**CLASSIFICATION:UNCLASSIFIED**

### ATTACHMENT SHEET FOR AGGREGATED ITEMS

**P-40a**

DATE:

February 1999

[illegible]

P-1 ITEM NOMENCLATURE
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### PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000)

## Practice Bombs (Y1Q1)

[illegible]

P-1 SHOPPING LIST

CLASSIFICATION:UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a								DATE: February 1999				
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000)							P-1 ITEM NOMENCLATURE Practice Bombs (Y1Q1)					
Procurement Items	ID Code	Prior Years*	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
MK 84 INERT	A											
QTY			3,339					2,134	3,000	3,450		
FUNDING			\$8,600					\$8,112	\$8,699	\$10,253		
MK83 INERT	A											
QTY			5,433	2,771	7,933	7,934	8,444	8,442	8,988	10,229		
FUNDING			\$10,808	\$6,166	\$18,146	\$18,477	\$20,380	\$20,876	\$22,782	\$26,584		
MK 83 CONICAL FIN	A											
QTY					8,000							
FUNDING					\$1,551							
BSU 85 RETARD FINS	A											
QTY						3,750	4,000	4,000	4,250	4,750		
FUNDING						\$2,468	\$2,672	\$2,713	\$2,926	\$3,319		
Other Costs			\$2,643	\$6,824	\$6,743	\$5,110	\$4,488	\$4,677	\$4,678	\$5,221		
Total		\$41,373	\$46,524	\$54,953	\$49,106	\$54,672	\$66,625	\$75,214	\$88,243	\$104,123	Cont	Cont

P-1 SHOPPING LIST

CLASSIFICATION:UNCLASSIFIED

CLASSIFICATION: **UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System			DATE: February 1999				
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Practice Bombs (Y1Q1)						
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS										
			Prior Years *	FY 1998			FY 1999			FY 2000			
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	
Q1010	MK 76(E973)	A					301,572	19.88	5,995	196,236	19.95	3,915	
Q1040	MK 82 INERT, BDU 45/B (F017)	A		10,349	1,040.68	10,770	14,553	1,011.49	14,720	8,000	1,026.88	8,215	
QTBD	BSU 33 FIN (F782)	A								8,000	90.00	720	
QTBD	BSU 86/B FIN (F766)	A											
Q1300	Laser Guided Training Round	A		2,447	5,600.00	13,703	4,289	4,954.00	21,248	1,940	5,060.00	9,816	
Q1070	MK 84 Inert (MOD 7) NTP	A		3,339	2,575.62	8,600							
Q1060	MK 83 Inert (E511)	A		5,433	1,989.32	10,808	2,771	2,225.09	6,166	7,933	2,287.42	18,146	
QTBD	MK 83 Conical Fin	A								8,000	193.91	1,551	
Q1800	ILS					400			400			400	
Q1830	PES					1,643			4,935			4,950	
Q1831	PES/ARMY								889			793	
Q1850	PIP					350			350			350	
Q1894	Gauging					250			250			250	
TOTAL			41,373			46,524			54,953			49,106	

CLASSIFICATION: **UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			A. DATE Feb-99		
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE Practice Bombs				SUBHEAD Y1Q1	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
Q1010 <u>MK 76 (E973)</u>										
FY 99	301,572	19.88	Rock Island, IL	Aug-98	C/FP	UNKNOWN	Apr 99	Jun-00	YES	
FY 00	196,236	19.95	Rock Island, IL	TBD	C/FP	UNKNOWN	Apr 00	Jun-01	YES	
Q1040 <u>BDU-45/B (F017)</u>										
FY 96	11,298	813.24	Rock Island, IL	Aug 95	SS/FP	MCALESTER, AAP (MCALESTER, OK)	Sep-96	Jun-98	YES	
FY 97 **	3,078	706.27	Rock Island, IL	Aug-96	SS/FP	MCALESTER, AAP	Sep-97	May-99	YES	
FY 98	10,349	1,040.68	Rock Island, IL	Aug-97	SS/FP	MCALESTER, AAP	Apr-98	Jun-99	YES	
FY 99	14,553	1,011.49	Rock Island, IL	TBD	SS/FP	MCALESTER, APP	Apr 99	Jun-00	YES	
FY 00	8,000	1,026.88	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Apr 00	Jun-01	YES	
Q1300 <u>Laser Guided Training Round</u>										
FY 97*	815	5,600.00	NAVAIR	Aug-98	SS/FP	LORAL	Oct-98	Jun-99	YES	
FY 98*	2,447	5,600.00	NAVAIR	Aug-98	SS/FP	LOCKHEED-MARTIN	Oct-98	Jun-99	YES	
FY 99	4,289	4,954.00	NAVAIR	TBD	C/FP	UNKNOWN	Apr 99	Jun-00	YES	
FY 00	1,940	5,060.00	NAVAIR	TBD	C/FP	UNKNOWN	Apr 00	Jun-01	YES	
Q1060 <u>MK 83 Inert</u>										
FY 98	5,433	1,989.32	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Jul-98	Jun-99	YES	
FY 99	2,771	2,225.09	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP (MCALESTER, OK)	Apr 99	Jun-00	YES	
FY 00	7,933	2,287.42	Rock Island, IL	TBD	SS/FP	MCALESTER, AAP	Apr 00	Jun-01	YES	
Q1070 <u>MK 84 INERT NTP</u>										
FY 98	3,339	2,575.62	Rock Island, IL	Aug-97	SS/FP	MCALESTER, AAP	Jun 98	Aug 99	YES	
D. REMARKS										
*LGTR contract awarded by NAVAIR in October 1998, final definitization expected in February 1999.										
** BDU-45 Delayed due to charge case assembly problems, lack of conforming material, and paint primer problems.										

CLASSIFICATION: **UNCLASSIFIED**

<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System			A. DATE <b>Feb-99</b>		
<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b> <b>B.A.1 - Navy Ammunition</b>					<b>C. P-1 ITEM NOMENCLATURE</b> <b>Practice Bombs</b>				<b>SUBHEAD</b> <b>Y1Q1</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>QTBD BSU33 FIN</u> FY 00	8,000	90.00	Rock Island, IL	TBD	SS/FP	UNKNOWN	Apr 00	Jun-01	YES	
<u>QTBD MK 83 CONICAL FIN</u> FY 00	8,000	193.91	Rock Island, IL	TBD	SS/FP	UNKNOWN	Apr 00	Jun-01	YES	
D. REMARKS										



BUDGET PRODUCTION SCHEDULE, P-21										DATE February 1999			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS					Weapon System		P-1 ITEM NOMENCLATURE PRACTICE BOMBS (Y1Q1)						
		Production Rate			Procurement Leadtimes								
Item	Manufacturer's Name and Location				MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
LGTR	LOCKHEED-MARTIN(LORAL				UNK	300	UNK		6	14		15	EACH
MK 83 Inert	MCALESTER (OK)				1800	3600	9000		6	14		20	THOUSAND
MK 84 Inert	MCALESTER (OK)				1800	3600	9000		6	14		20	THOUSAND

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Laser Guided Training		N																												
LOCKHEED-MARTIN*	97		815	0	815	A								68	68	68	68	68	68	68	68	67						0		
LOCKHEED-MARTIN*	98		2447	0	2447	A								214	214	214	214	214	214	214	214	93						0		
UNKNOWN	99		4289	0	4289								A										360	360	360	360		2849		
UNKNOWN	00		1940	0	1940															A								1940		
MK 83 Inert		N																												
MCALESTER	98		5.4	0	5.4									1.8	1.8	1.8												0		
MCALESTER	99		2.8	0	2.8								A									1.4	1.4					0		
MCALESTER	00		7.9	0	7.9															A								7.9		
MK 84 Inert		N																												
MCALESTER	98		3.3	0	3.3										1.1	1.1	1.1											0.0		

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												FISCAL YEAR 2002												B A L
						2000			CALENDAR YEAR 2001									CALENDAR YEAR 2002												
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Laser Guided Training Round		N																												
UNKNOWN	99		4289	1440	2849	360	360	360	360	360	360	360	329															0		
UNKNOWN	00		1940	0	1940									160	160	160	160	160	160	160	160	180					0			
		N																												
MK 83 Inert																														
MCALESTER	00		7.9	0.0	7.9									1.9	2.0	2.0	2.0										0.0			

Remarks: LGTR LETTER CONTRACT AWARDED IN OCTOBER, DEFINITIZATION EXPECTED IN FEBRUARY





CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1999				
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>							P-1 ITEM NOMENCLATURE <b>Cartridges and Cartridge Actuated Devices (CARTS/CADS) (Y1Q8)</b>					
Program Element for Code B Items: <b>B.A.1 - Navy Ammunition</b>							Other Related Program Elements					
	Prior Years *	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	<b>\$54.0</b>		<b>\$24.0</b>	<b>\$25.9</b>	<b>\$26.8</b>	<b>\$27.3</b>	<b>\$27.9</b>	<b>\$28.5</b>	<b>\$29.1</b>	<b>\$29.6</b>	<b>Cont</b>	<b>Cont</b>
<p><u>Escape System/Life Support Devices</u>            These items, such as safety/arming devices, sequence controls, shielded mild detonating cord, gas generators, initiators, thermal batteries, etc, are used in aircraft emergency escape systems. The total number of devices installed varies with the type of aircraft, for example: F-14/A(273); F/A-18(136); S-3(105); EA-6B(45), T-45(76), T/AV-8(90) and AH-1(27). These explosives have finite service lives and are replaced during scheduled maintenance. An aircraft may be grounded if a single one of these items does not meet the standard. Life support devices such as the Sea Water Activated Release System and the FLU-8B/P automatic life vest inflator are essential to crew survival after ejection. The budget request provides funding for the procurement of NACES items, JAU-52/A and BBU-57/A Cutter.</p> <p><u>Weapons/Stores Release Cartridges</u>            These items are used to eject weapons/stores from aircraft. The JAU-22 and other miscellaneous impulse cartridges are used to eject sonobuoys from aircraft. The budget request provides for CCU-107 Impulse Cartridges and the JAU-22/B Initiator Cartridges.</p> <p><u>Integrated Logistics Support</u>            Integrated Logistics Support (ILS) efforts provide for ILS planning, maintenance standardization, conducting supply support, technical data programs, and generation and implementation of a traceability system.</p> <p><u>Production Engineering Support</u>            The Production Engineering Support (PES) efforts include: the review of procurement requests, waivers and deviations, technical support of Lot Acceptance Testing/First Article Testing, as well as conforming to new EPA regulations.</p> <p><u>Product Improvement Programs</u>            Product Improvement Programs (PIP) are conducted as part of a continuing effort to correct deficiencies in areas of safety, reliability, maintainability, producibility, and to increase the service life of CARTS and CADS.</p> <p><b>*FY 95/96/97 only. Prior to FY 95, this program is funded in the Other Procurement, Navy BA-5 appropriation.</b></p>												

P-1 SHOPPING LIST

CLASSIFICATION: **UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a									DATE: February 1999			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000)							P-1 ITEM NOMENCLATURE Cartridges and Cartridge Actuated Devices (CARTS/CADS) (Y1Q8)					
Procurement Items	ID Code	Prior Years *	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
CCU-107 Init. Ctg. (MT95)											Cont	Cont
QTY			0	180,000	250,000	250,000	250,000	250,000	250,000	250,000		
Funding				\$844	\$1,198	\$1,225	\$1,253	\$1,285	\$1,313	\$1,343		
JAU-22/B Init. Ctg. (MF64)												
QTY			190,000	68,000	90,000	110,000	110,000	110,000	110,000	110,000		
Funding			\$2,316	\$952	\$1,287	\$1,608	\$1,646	\$1,687	\$1,725	\$1,762		
Thermal Battery (CWDR)												
QTY				153	252	286	347	368	352	352		
Funding				\$521	\$860	\$994	\$1,229	\$1,331	\$1,301	\$1,457		
BBU-57/A Cutter (SR95)												
QTY				46	57	73	67	66	63	63		
Funding				\$377	\$477	\$769	\$719	\$723	\$706	\$791		
JAU-52 (MJ91)												
QTY			121		168	297	226		218	218		
Funding			\$396		\$574	\$935	\$726		\$731	\$819		
Navy Aircrew Common Ejection Seat												
QTY												
Funding			\$1,237	\$1,601	\$962	\$1,455	\$2,082	\$2,670	\$1,741	\$1,780		
Misc Devices			\$10,904	\$12,422	\$12,487	\$11,026	\$11,015	\$11,625	\$12,302	\$12,221		
Other Support			\$9,131	\$9,142	\$8,981	\$9,322	\$9,183	\$9,132	\$9,231	\$9,463		
TOTAL		\$54,000	\$23,984	\$25,859	\$26,826	\$27,334	\$27,853	\$28,453	\$29,050	\$29,636	Cont	Cont

P-1 SHOPPING LIST

CLASSIFICATION: **UNCLASSIFIED**

**CLASSIFICATION: UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System		DATE: February 1999				
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition					ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD Cartridges and Cartridge Actuated Devices						
COST CODE	ELEMENT OF COST	ID Code		FY 1998			FY 1999			FY 2000		
			Prior Years									
			Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost
	<b><u>STORES RELEASE</u></b>											
Q8TBD	CCU-107 Imp Ctg (MT95)	A				0	180,000	4.69	844	250,000	4.79	1,198
Q8090	JAU-22/B Init. Ctg. (MF64)	A		190,000	12.19	2,316	68,000	14.00	952	90,000	14.30	1,287
	<b><u>SAFETY</u></b>											
Q8060	Thermal Battery (CWDR)	A				0	153	3,405.46	521	252	3,412.50	860
Q8080	BBU-57/A Cutter (SR95)	A				0	46	8,188.85	377	57	8,363.99	477
Q8120	JAU-52 (MJ91)	A		121	3,276.39	396			0	168	3,417.59	574
Q8300	Navy Aircrew Common Ejection Seat	A				1,237			1,601			962
Q8600	Misc Devices Under \$500K					10,904			12,422			12,487
Q8800	Integrated Logistics Support					1,768			1,795			1,728
Q8830	Production Engineering Support					2,498			2,398			2,643
Q8840	Quality Assurance					328			344			362
Q8850	Product Improvement Program					3,550			3,571			3,040
Q8860	Acceptance Testing					987			1,034			1,208
TOTAL			54,000			23,984			25,859			26,826

**CLASSIFICATION: UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE		February 1999	
B. APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A.1 - Navy Ammunition					C. P-1 ITEM NOMENCLATURE Cartridges and Cartridge Actuated Devices				SUBHEAD Y1Q8	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<b><u>STORES RELEASE</u></b>										
Q8TBD CCU-107 Imp Ctg (MT95)										
FY 99	180,000	4.69	NAVICP	TBD	C/CR	UNKNOWN	Apr-99	Apr 00	YES	
FY 00	250,000	4.79	NAVICP	TBD	C/CR	UNKNOWN	Apr-00	Apr-01	YES	
Q8120 JAU-22/B Init. Ctg (MF64)										
FY 98	190,000	12.19	NAVICP	Jan 98	C/CR	ACTION/AMTEC CORP (JONESVILLE,WI /ATALIN,PA)	Apr-98	May-99	YES	
FY 99	68,000	14.00	NAVICP	TBD	C/CR	UNKNOWN	Apr-99	Apr 00	YES	
FY 00	90,000	14.30	NAVICP	TBD	C/CR	UNKNOWN	Apr 00	Apr 01	YES	
<b><u>SAFETY</u></b>										
Q8060 Thermal Battery (CWDR)										
FY 99	153	3405.46	NAVAIR BUY	TBD	SS/FP	Martin Baker, London UK	Apr 99	Apr 00	YES	
FY 00	252	3412.50	NAVAIR BUY	TBD	SS/FP	Martin Baker	Apr 00	Apr 01	YES	
Q8080 BBU-57/A Cutter(SR95)										
FY 99	46	8188.85	NAVICP	TBD	SS/CR	NORTHROP (HAWTHORNE, CA.)	Apr-99	Apr-00	YES	
FY 00	57	8363.99	NAVICP	TBD	SS/CR	NORTHROP	Apr 00	Apr 01	YES	
Q8120 JAU-52/B Init. Ctg (MJ91)										
FY 98	121	3276.39	NAVICP	August 1997	SS/CR	ROCKET RESEARCH	Apr-98	Jun-99	YES	
FY 00	168	3417.59	NAVICP	TBD	SS/CR	ROCKET RESEARCH	Apr 00	Apr 01	YES	
D. REMARKS										

[illegible]



CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET P-40							DATE: <b>February 1999</b>					
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>							P-1 ITEM NOMENCLATURE <b>Aircraft Escape Rockets/Catapults (Y1Q9)</b>					
Program Element for Code B Items: <b>B.A.1 - Navy Ammunition</b>							Other Related Program Elements					
	Prior Years *	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	<b>\$27.3</b>		<b>\$8.2</b>	<b>\$10.3</b>	<b>\$10.5</b>	<b>\$10.7</b>	<b>\$10.9</b>	<b>\$11.2</b>	<b>\$11.4</b>	<b>\$11.7</b>	<b>Cont</b>	<b>Cont</b>
<p>This program provides funding for rocket motors, rocket catapults and catapults used to eject crewmen from disabled aircraft. The program is structured to meet replacement requirements that are based on aircraft inventories and escape rocket/catapults service lives. An aircraft containing a single escape rocket/catapult not up to man-rated standards is grounded for safety-of-flight. Spare inventories are limited to the lowest level that can be maintained without causing aircraft grounding due to shortfalls. Devices are also used to function aircraft emergency safety systems. The FY 1998 and 1999 budget request provides funding for the procurement of MK 122 parachute deployment rocket motors, Mk 123/124 underseat rocket motors and Mk 100 Rocket Motor, various miscellaneous devices, PIP and associated production engineering and integrated logistics support.</p> <p><u>PES</u>: Production Engineering Support efforts include the review of procurement requests, waivers and deviations, and technical support for First Article Testing/Lot Acceptance Testing. Conformance with new EPA regulations is part of the PES review.</p> <p><u>ILS</u>: Integrated Logistics Support efforts will provide ILS planning, maintenance standardization, supply support, the generation and implementation of a traceability system, and technical data programs.</p> <p><u>PIP</u>: Multi-year Product Improvement Programs consists of programs to ensure producibility and safety for the MK 109 Canopy Remover Rocket Motor, the MK 12/16/18 Rocket Catapults, as well as the MK 100/101/123/124 Underseat Rocket Motors.</p> <p><b>*FY 95, 96 &amp; 97 only. Prior to FY 95, this program was funded in the Other Procurement, Navy BA-5 appropriation</b></p>												

CLASSIFICATION: UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a							DATE: February 1999					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000)							P-1 ITEM NOMENCLATURE Aircraft Escape Rockets/Catapults (Y1Q9)					
Procurement Items	ID Code	Prior Years	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
MK 122	A										Cont	Cont
QTY			217	123	15	33	110	212	173	238		
Funding			\$593	\$386	\$48	\$108	\$369	\$730	\$624	\$879		
MK 123	A											
QTY			6		51	39	70	60	27	38		
Funding			\$45	\$0	\$421	\$329	\$605	\$532	\$251	\$362		
MK 124	A											
QTY			6		117	107	106	94	50	50		
Funding			\$45	\$0	\$967	\$904	\$917	\$833	\$464	\$476		
Misc. Devices			\$2,609	\$4,795	\$3,783	\$4,016	\$3,499	\$3,533	\$4,456	\$4,153		
Other Support			\$4,872	\$5,137	\$5,250	\$5,330	\$5,532	\$5,558	\$5,625	\$5,780		
TOTAL		\$27,273	\$8,164	\$10,318	\$10,469	\$10,687	\$10,922	\$11,186	\$11,420	\$11,650	Cont	Cont



CLASSIFICATION: UNCLASSIFIED

WEAPONS SYSTEM COST ANALYSIS P-5						Weapon System		DATE: February 1999						
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS B.A. 1 - Navy Ammunition						ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD  Aircraft Escape Rockets/Catapults (Y1Q9)							
COST CODE	ELEMENT OF COST		ID Code	TOTAL COST IN THOUSANDS OF DOLLARS										
				Prior Years	FY 1998			FY 1999			FY 2000			
				Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	Units	Unit Cost	Total Cost	
	<u>SAFETY</u>													
Q9070	MK122 Parachute Deploy. RKT Mtr(MT29)		A		217	2,732.71	593	123	3,141.00	386	15	3,208.85	48	
Q9080	MK123 Underseat Rkt Mtr (MT30)		A		6	7,500.00	45			0	51	8,264.15	421	
Q9081	MK124 Underseat Rkt Mtr (MT31)		A		6	7,500.00	45			0	117	8,264.15	967	
Q9130	Misc Devices Under \$500K						2,609			4,795			3,783	
Q9820	Reliability Life						627			656			582	
Q9800	Integrated Logistics Support						872			931			980	
Q9830	Production Engineering Support						1,006			927			1,087	
Q9850	Product Improvement Program						1,712			1,928			1,859	
Q9860	Acceptance Test						655			695			742	
TOTAL					27,273			8,164			10,318			10,469

CLASSIFICATION: UNCLASSIFIED

BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE <b>February 1999</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS B.A.1 - Navy Ammunition</b>					C. P-1 ITEM NOMENCLATURE <b>Aircraft Escape Rockets/Catapults</b>				SUBHEAD <b>(Y1Q9)</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>Q9070 MK 122 Parachute Deployment Rkt Mtr (MT29)</u>										
FY 98	217	2,732.71	(Mechanicsburg, PA) NAVICP	DEC 97	C/FP	(LONDON, UK) MARTIN-BAKER	MAR 98	APR 99	YES	
FY 99	123	3,141.00	TBD	SEP 98	C/FP	UNKNOWN	APR 99	APR 00	YES	
FY 00	15	3,208.85	TBD	TBD	C/FP	UNKNOWN	APR 00	APR 01	YES	
<u>Q9080 MK 123 Underseat Rkt Mtr (MT30)</u>										
FY 98	6	7,500.00	(Mechanicsburg, PA) NAVICP	DEC 97	C/FP	(LONDON, UK) MARTIN-BAKER	MAR 98	APR 99	YES	
FY 00	51	8,264.15	TBD	SEP 98	C/FP	UNKNOWN	APR 00	APR 01	YES	
<u>Q9081 MK 124 Underseat Rkt Mtr (MT31)</u>										
FY 98	6	7500.00	(Mechanicsburg, PA) NAVICP	DEC 97	C/FP	(LONDON, UK) MARTIN-BAKER	MAR 98	APR 99	YES	
FY 00	117	8264.15	TBD	SEP 98	C/FP	UNKNOWN	APR 00	APR 01	YES	
D. REMARKS										

BUDGET PRODUCTION SCHEDULE, P-21										DATE February 1999			
APPROPRIATION/BUDGET ACTIVITY					Weapon System		P-1 ITEM NOMENCLATURE						
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS							Aircraft Escape Rockets/Catapults (Y1Q9)						
		Production Rate			Procurement Leadtimes								
Item	Manufacturer's Name and Location		MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure		
All	Martin Baker - England		1	265	265		6	12		18	Each		

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L
						1998			CALENDAR YEAR 1999												CALENDAR YEAR 2000									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q9070 MK 122(MT29)		N																												
Martin-Baker Aerospace	98		217	0	217							18	18	18	18	18	18	18	18	18	18	18	18	18	18	18				
Unknown	99		123	0	123							A											10	10	10	10				
Unknown	00		15	0	15																	A								
Q9080 MK 123 (MT30)		N																												
Martin-Baker Aerospace	98		6	0	6							1		1		1		1		1						0				
Unknown	00		51	0	51															A						51				
Q9081 MK 124 (MT31)		N																												
Martin-Baker Aerospace	98		6	0	6							1		1		1		1		1						0				
Unknown	00		117	0	117														A							117				

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												FISCAL YEAR 2002												B A L
						2000			CALENDAR YEAR 2001												CALENDAR YEAR 2002									
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	
Q9070 MK 122(MT29)		N																												
Unknown	99		123	60	63	10	10	10	11	11	11															0				
Unknown	00		15	0	15							1	1	1	1	1	1	1	2	2	2					0				
Q9080 MK 123 (MT30)																														
Unknown	00		51	0	51							4	4	4	4	4	4	4	5	5	5					0				
Q9081 MK 124(MT31)		N																												
Unknown	00		117	0	117							10	10	10	10	10	10	10	10	10	7					0				

Remarks:

CLASSIFICATION:

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: <b>FEBRUARY 99</b>				
APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS/BA-1 Navy Ammunition</b>							P-1 ITEM NOMENCLATURE <b>AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)</b>					
Program Element for Code B Items: <b>RDT&amp;E 0604270N</b>							Other Related Program Elements					
	Prior Years	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	*											
	<b>\$54.7</b>		<b>\$22.2</b>	<b>\$28.9</b>	<b>\$34.3</b>	<b>\$43.1</b>	<b>\$44.4</b>	<b>\$49.1</b>	<b>\$52.1</b>	<b>\$61.5</b>	<b>CONT</b>	<b>CONT</b>
<p>The Airborne Expendable Countermeasures (ABN EXP C/M) line provides funding for procurement of countermeasure self-protection devices for all Navy and Marine Corps tactical, rotary and slow fixed-wing aircraft. The ABN EXP C/M Program is divided into the following threat related categories: (a) air-launched chaff, (b) Radio Frequency (RF) Active jammers, (c) infrared (IR) decoys, (d) associated impulse cartridges, and (e) support costs.</p> <p><b>Active Jammers:</b> The Advanced Airborne Electronic Decoy (AAED), part of the ALE-50 program, achieved a Milestone III Production Decision in FY 1997. Procurement of the AAED Towed Expendable Decoy began in FY 1997. The Fiber Optic Towed Decoy (FOTD) is part of the Integrated Defensive Electronic Countermeasure (IDECM) Radio Frequency Countermeasure (RFCM) program which is scheduled for Limited Rate Initial Production (LRIP) in FY 1999 based on an Operational Assessment (OA) beginning in FY 1998. AAED and FOTD were developed under PE 0604270N RDT&amp;E, Project E2175.</p> <p><b>IR Decoys:</b> The MJU-49/B will replace the MJU-27 decoy device on all rotary wing aircraft. Procurement of the MJU-35 and MJU-36 extended length decoys in support of F/A-18 E/F testing begins in FY 98 and ends in FY 99. The SM875 is a dedicated, low cost training device. The MK28 is a decoy flare used for missile training and testing. Reprocurement to replenish inventory levels will begin in FY 1998. Procurement of the MJU-52 (BOL IR) device will begin in FY 00. All infrared decoys will be competitively procured by the Single Manager for Conventional Ammunition (SMCA) once transitioned.</p> <p><b>Impulse Cartridges:</b> Used to propel the self-protection devices away from the aircraft. In FY 1997 the CCU136 replaced the CCU/63 and the CCU41/B. Beginning in FY 99, a Hazards of Electromagnetic Radiation (HERO) safe impulse cartridge (CCU136A/A) will replace the CCU136. The BBU-36 is used with the MJU-47 and the BBU-35 is used with the MJU-48 and MJU-51.</p> <p><b>Support costs:</b> Provide for required Production Engineering (PE), Product Improvement (PIP), Quality Assurance (QA), Acceptance Test and Evaluation (AT&amp;E), and Integrated Logistic Support (ILS) by NAVAIR engineering/cognizant field activities.</p> <p>* FY 95-97 only. Prior to FY 95, this program was funded in the Weapons Procurement, Navy (WPN) and Other Procurement, Navy (OPN) appropriations.</p>												

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a							DATE: FEBRUARY 99					
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE						
PROCUREMENT OF AMMUNITION,NAVY & MARINE CORPS/BA-1 Navy Ammunition						AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)						
Procurement Items	ID Code	Prior Years *	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
ACTIVE JAMMERS												
AAED (ALE-50)	A											
Quantity		92	156	117							CONT	CONT
Funding		2,380	3,549	2,569								
FOTD (IDECM)	B											
Quantity				90	57	250	300	375	425	515	CONT	CONT
Funding				4,293	2,371	9,950	11,880	13,500	14,408	17,253		
FOTD (TRAINING)	B											
Quantity						26	29	93	121	12	CONT	CONT
Funding						341	379	1,105	1,354	133		
IR DECOYS												
MJU-27A/B Decoy	A											
Quantity		90,797	69,420	52,699	65,600	77,360	55,758	87,792	69,703	67,857	CONT	CONT
Funding		8,471	5,703	3,947	4,962	5,987	4,358	6,931	5,571	5,464		
MJU-32/B	A											
Quantity		262,176	114,660							20,580	CONT	CONT
Funding		6,734	2,047							424		
MJU-38/B	A											
Quantity		131,094			26,460	52,920	44,100	20,580	20,580	20,580	CONT	CONT
Funding		4,285			608	1,239	1,054	423	423	423		
MJU-49/B (Helo)	A											
Quantity				20,400	28,800	24,480	20,160	14,400	13,360	12,000	CONT	CONT
Funding				2,789	3,456	2,889	2,427	1,768	1,673	1,527		
SM875	A											
Quantity		240,280									CONT	CONT
Funding		1,596										
SM875A	A											
Quantity			200,640	200,000	200,640	193,380	171,840	200,640	200,640	200,640	CONT	CONT
Funding			1,158	1,036	1,047	1,019	914	1,087	1,108	1,130		
Page Total		23,466	12,457	14,634	12,444	21,425	21,012	24,814	24,537	26,354		

CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET FOR AGGREGATED ITEMS P-40a							DATE: FEBRUARY 99					
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION,NAVY & MARINE CORPS/BA-1 Navy Ammunition						P-1 ITEM NOMENCLATURE AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)						
Procurement Items	ID Code	Prior Years *	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
MK28 MOD 3	A											
Quantity			30	30							CONT	CONT
Funding			6	7								
MJU-35/B	A											
Quantity			1,000	5,000							CONT	CONT
Funding			129	614								
MJU-36B	A											
Quantity			1,000	5,000							CONT	CONT
Funding			70	217								
MJU-47/B ASTE Kinematic	A											
Quantity							9,240	9,240	13,440	18,480	CONT	CONT
Funding							1,596	1,628	2,415	3,387		
MJU-48 ASTE Companion	A											
Quantity							9,240	9,240	13,440	18,480	CONT	CONT
Funding							1,182	1,206	1,789	2,510		
MJU-51 ASTE Covert	A											
Quantity							3,000	5,000	5,000	9,660	CONT	CONT
Funding							499	849	841	1,640		
<b>IMPULSE CARTRIDGES</b>												
CCU-63/B (IR DECOYS)	A											
Quantity		260,352										
Funding		414										
CCU-41/B (CHAFF)	A											
Quantity		821,277										
Funding		1,056										
CCU-136 (GENERIC)	A											
Quantity		459,979	245,621								CONT	CONT
Funding		882	194									
Page Total		2,352	399	838			3,277	3,683	5,045	7,537		

**CLASSIFICATION:**

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**CLASSIFICATION:**

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CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: FEBRUARY 99			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/BA-1 Navy Ammunition							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 1998			FY 1999			FY 2000						
			Total Cost *	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
QA110	<u>ACTIVE JAMMERS</u> AAED (ALE-50)	A	2,380	156	22.74700	3,549	117	21.96100	2,569							
TBD	FOTD / IDECM	B					90	47.70000	4,293	57	41.59649	2,371				
QA130	<u>IR DECOYS</u> MJU-27A/B DECOY DEVICE	A	8,471	69,420	0.08215	5,703	52,699	0.07490	3,947	65,600	0.07564	4,962				
QA140	MJU-32/B ROTARY-WING DECOY	A	6,734	114,660	0.01785	2,047										
QA150	MJU-38/B FIXED WING DECOY	A	4,285							26,460	0.02296	608				
TBD	MJU-49/B DECOY DEVICE	A					20,400	0.13672	2,789	28,800	0.12000	3,456				
QA260	SM875 (TRAINING FLARE)	A	1,596													
QA260	SM875A (TRAINING FLARE)	A		200,640	0.00577	1,158	200,000	0.00518	1,036	200,640	0.00522	1,047				
QA160	MK28 MOD 3 (TARGET FLARE)	A		30	0.20000	6	30	0.21660	7							
QA170	MJU-35/B DECOY DEVICE	A		1,000	0.12900	129	5,000	0.12280	614							
QA180	MJU-36B FIXED-WING DECOY	A		1,000	0.07000	70	5,000	0.04337	217							
QA070	<u>IMPULSE CARTRIDGES</u> CCU-63/B (IR DECOYS)	A	414													
QA080	CCU-41/B (CHAFF)CCU-41/B (CHAFF)	A	1,056													
PAGE TOTAL			24,936			12,662			15,472			12,444				

CLASSIFICATION:

**UNCLASSIFIED**

WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: FEBRUARY 99			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS/BA-1 Navy Ammunition							ID Code	P-1 ITEM NOMENCLATURE/SUBHEAD AIRBORNE EXPENDABLE C/M PROGRAM (SH Y1QA)								
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS													
			Prior Years	FY 1998			FY 1999			FY 2000						
			Total Cost *	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	
QA090	<u>IMPULSE CARTRIDGES (CONT'D)</u> CCU-136 (GENERIC)	A	882	245,621	0.00079	194										
TBD	CCU-136A/A (GENERIC)	A					780,000	0.00338	2,636	800,000	0.00345	2,760				
TBD	<u>CHAFF COUNTERMEASURES</u> RR-129A CHAFF CM	A								489,600	0.01000	4,896				
TBD	RR-144A TRNG CHAFF	A								57,600	0.01000	576				
QA240	RR-184 BOL CHAFF	A	1,954													
TBD	MJU-52 BOL IR	A								30,720	0.03799	1,167				
QA830	<u>SUPPORT COSTS</u> PRODUCTION ENGINEERING		6,394			2,509			2,966			3,460				
QA840	HQ IOC SUPPORT		3,821			505			251			1,080				
QA850	PRODUCT IMPROVEMENT		6,761			3,012			3,531			3,827				
QA860	ACCEPTANCE TEST & EVALUATION		9,083			3,038			3,714			3,704				
QA800	ILS		840			280			345			345				
P5 GRAND TOTAL			54,671			22,200			28,915			34,259				

CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System			DATE <b>FEBRUARY 99</b>		
B. APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS BA-1 Navy Ammunition</b>					C. P-1 ITEM NOMENCLATURE <b>AIRBORNE EXPENDABLE C/M PROGRAM</b>				SUBHEAD <b>Y1QA</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b><u>ACTIVE JAMMERS</u></b>										
AAED (ALE-50)										
(N012) FY 97	92	25.87200	Wright Pat AFB, OH	Dec-96	SS/FP	Raytheon, Goleta, CA	Jan-97	Mar-98	YES	
(N012) FY 98	156	22.74700	Wright Pat AFB, OH	N/A	SS/Option	Raytheon, Goleta, CA	Jan-98	Mar-99	YES	
(N012) FY 99	117	21.96100	Wright Pat AFB, OH	N/A	SS/Option	Raytheon, Goleta, CA	Jan-99	Mar-00	YES	
FOTD (IDECM)										
(TBD) FY 99	90	47.70000	NAVAIR PAX River	Jan-99	SS/FP	Sanders,Nashua, NH	Jun-99	Sep-00	YES	
(TBD) FY 00	57	41.59649	NAVAIR PAX River	Jan-00	SS/FP	Sanders,Nashua, NH	Jun-00	Sep-01	YES	
<b><u>INFRARED DECOYS</u></b>										
MJU-27A/B DECOY										
(EWAA) FY 98	69,420	0.08215	SMCA Rock Island, IL	Dec-97	SS/FP	Alloy, Wilmington, DE	Jun-98	Sep-98	YES	
(EWAA) FY 99	52,699	0.07490	SMCA Rock Island, IL	Dec-98	SS/FP	Alloy, Wilmington, DE	Apr-99	Sep-99	YES	
(EWAA) FY 00	65,600	0.07564	SMCA Rock Island, IL	Dec-99	SS/FP	Alloy, Wilmington, DE	Apr-00	Sep-00	YES	
MJU-32/B ROTARY WING AIRCRAFT DECOY										
(LA01) FY 98	114,660	0.01785	SMCA Rock Island, IL	Dec-97	C/FP	Kilgore, Toon, TN	Jun-98	Sep-98	YES	
MJU-38/B FIXED WING DECOY										
(LA02) FY 96	131,094	0.03300	SMCA Rock Island, IL	Dec-96	C/FP	Kilgore, Toon, TN	Mar-97	Feb-99	YES	
(LA02) FY 00	26,460	0.02296	SMCA Rock Island, IL	Dec-99	C/FP	TBD	Mar-00	Jul-00	YES	
MJU-49/B DECOY DEVICE										
(DWCI) FY 99	20,400	0.13672	NSWC Crane, IN	Nov-98	SS/FP	Alloy, Wilmington, DE	Feb-99	Jun-99	YES	
(DWCI) FY 00	28,800	0.12000	SMCA Rock Island, IL	Nov-99	SS/FP	Alloy, Wilmington, DE	Apr-00	Aug-00	YES	
D. REMARKS										

CLASSIFICATION:

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)						Weapon System			A. DATE		
									FEBRUARY 99		
B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE				SUBHEAD	
PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS						AIRBORNE EXPENDABLE C/M PROGRAM				Y1QA	
BA-1 Navy Ammunition											
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE	
INFRARED DECOYS CONT'D											
SM875A TRNG FLARE (LA10) FY 98	200,640	0.00577	NSWC Crane, IN	Dec-97	C/FP	Martin, Perry, FL	Sep-98	Apr-99	YES		
(LA10) FY 99	200,000	0.00518	NSWC Crane, IN	Dec-98	C/FP	Martin, Perry, FL	Mar-99	Feb-00	YES		
(LA10) FY 00	200,640	0.00522	SMCA Rock Island, IL	Dec-99	C/FP	TBD	May-00	Oct-00	YES		
MK-28 MOD 3 TARGET FLARE											
(LW39) FY 98	30	0.20000	N/A	N/A	N/A	NSWC Crane, IN	Jan-98	Jun-98	YES		
(LW39) FY 99	30	0.21660	N/A	N/A	N/A	NSWC Crane, IN	Jan-99	Jun-99	YES		
MJU-35/B DECOY DEVICE											
(DWCG) FY 98	1,000	0.12900	NSWC Crane, IN	Oct-97	SS/FP	Alloy, Wilmington, DE	Feb-98	Jun-98	YES		
(DWCG) FY 99	5,000	0.12280	NSWC Crane, IN	Oct-98	SS/FP	Alloy, Wilmington, DE	Feb-99	Jun-99	YES		
MJU-36B FIXED WING DECOY											
(DWCH) FY 98	1,000	0.07000	N/A	N/A	N/A	NSWC Crane, IN	Feb-98	Jun-98	YES		
(DWCH) FY 99	5,000	0.04337	N/A	N/A	N/A	NSWC Crane, IN	Feb-99	Jun-99	YES		
IMPULSE CARTRIDGES											
CCU-136 (GENERIC) (SS36) FY 97	459,979	0.00192	NICP Mechanicsburg	Feb-97	C/FP	Tech Ord, St. Bonafacius,MN	Aug-97	Dec-98	YES		
(SS36) FY 98	245,621	0.00079	NICP Mechanicsburg	Dec-98	C/FP	Tech Ord, St. Bonafacius,MN	Apr-98	Nov-99	YES		
CCU-136A/A (GENERIC)											
(TBD) FY 99	780,000	0.00338	NICP Mechanicsburg	Dec-99	C/FP	TBD	May-99	Feb-00	YES		
(TBD) FY 00	800,000	0.00345	NICP Mechanicsburg	Dec-00	C/FP	TBD	May-00	Feb-01	YES		
D. REMARKS											

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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					Weapon System			A. DATE <b>FEBRUARY 99</b>		
<b>B. APPROPRIATION/BUDGET ACTIVITY</b> <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b> <b>BA-1 Navy Ammunition</b>					<b>C. P-1 ITEM NOMENCLATURE</b> <b>AIRBORNE EXPENDABLE C/M PROGRAM</b>				<b>SUBHEAD</b> <b>Y1QA</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	DATE REVISIONS AVAILABLE
<b>CHAFF COUNTERMEASURES</b>										
RR-129A CHAFF CM (DWCF) FY 00	489,600	0.01000	NICP Mechanicsburg		C/FP	TBD	Apr-00	Oct-00	NO	Aug-99
RR-144A TRNG CHAFF (DWCB) FY 00	57,600	0.01000	NICP Mechanicsburg		C/FP	TBD	Apr-00	Oct-00	NO	Aug-99
BOL IR MJU-52 (DWCO) FY 00	30,720	0.03799	NSWC Crane, IN		SS/FP	Alloy, Wilmington, DE	Apr-00	Oct-00	NO	Jan-99
D. REMARKS										











CLASSIFICATION:

BUDGET ITEM JUSTIFICATION SHEET P-40						DATE: February 1999						
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS						P-1 ITEM NOMENCLATURE Marine Location Markers						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years*	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	\$2.6	A	\$0.6	\$1.3								

Beginning FY 2000 Marine Location Markers is under the heading of Ammunition less than \$5 million

Marine Location Markers

These items include both air-launched and hand-launched pyrotechnic devices. The aircraft launched units visually assist locating sonobouys during anti-submarine operations. The hand launched units are used in a variety of situations which require a "marked spot" on the water surface, including man-overboard drills. The MK 58 was designed for day or night use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 40-60 minutes which is visible for at least three miles under normal operating conditions. The MK 25 is designed to launch from aircraft (primary) or surface craft to provide day/night reference-points in marking the course of enemy contacts. It is suitable for any type sea surface reference point marking that calls for both smoke and flame for approximately fifteen minutes.

The current budget profile provides funding for support efforts (PES, ILS), procurement of non-standard items, renovation components, and product improvement programs (PIPs) for future procurements. Funds for PIP in FY 96-99 are required to: complete testing and documentation of the MK 58 Mod 2, which makes the unit standard sonobouy size and incorporates a scuttling device that will work for consumed or dud units, and design and incorporate an arming switch as an additional safety feature in each marker configuration. Some minor hardware/material changes will be made at the same time for cost and ease of manufacture considerations.

The significant increase in funding from FY 1998 to FY 1999 and out is associated with the procurement of new MK 58 units.

	<u>FY98</u>	<u>FY99</u>
NAVY RESERVE (FY99 is below 26K)	\$0.0	\$0.0

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**CLASSIFICATION:**

BUDGET ITEM JUSTIFICATION SHEET P-40								DATE: February 1999				
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS						P-1 ITEM NOMENCLATURE JATO (JET ASSISTED TAKE OFF) (Y1Q7)						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)	\$12.3	A	\$4.4	\$3.9	\$5.0	\$5.0	\$4.9	\$5.0	\$5.1	\$5.2	Continuing	Continuing
<p>Description: The JATOs currently in production are the MK 117 and MK 125. JATOs are relatively small solid propellant rocket motors used to assist aircraft during takeoff, and launch target drones and Remotely Piloted Vehicles (RPVs).</p> <p>Intended use: Two MK 117s are used to launch one BQM 74C target. One MK 125 is used to launch the Pioneer RPV.</p> <p>Product Improvement: Funds requested for the Product Improvement Program (PIP) are in support of MK 117 design verification/qualification testing.</p> <p>Prior Years Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.</p>												
NAVY RESERVE			FY98 \$0.1	FY99 \$0.0*	FY00 \$0.1	FY01 \$0.1	FY02 \$0.1	FY03 \$0.1	FY04 \$0.1	FY05 \$0.1		

\*Less than \$50K

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WEAPONS SYSTEM COST ANALYSIS P-5							Weapon System						DATE: February 1999		
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS (\$000'S)							ID Code			P-1 ITEM NOMENCLATURE/SUBHEAD JATO (JET ASSISTED TAKE OFF) (Y1Q7)					
COST CODE	ELEMENT OF COST	ID Code	TOTAL COST IN THOUSANDS OF DOLLARS												
			Prior Years*	FY 1998			FY 1999			FY 2000					
			Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost	Quantity	Unit Cost	Total Cost			
Q7040	MK 117 MOD O ROCKET MOTOR (H341)	A	9,764	930	3335.00	3,102	340	3387.00	1,152	189	3447.00	651			
Q7050	MK 125 RATO (H311)	A	485	72	3902.78	281	366	3944.00	1,444	750	4007.00	3,007			
Q7800	Integrated Logistics Support		154			60			165			70			
Q7830	Production Engineering Support		1,099			412			432			541			
Q7850	Product Improvement Program		774			557			674			700			
FY98 unit cost is based on actuals for FY98. FY99-FY05 is based on NWCf escalation rates.															
*Prior Years Reflects FY95-FY97 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.															
			12,276			4,412			3,867			4,969			

DD FORM 2446, JUN 86

P-1 SHOPPING LIST  
ITEM NO. 10

PAGE NO. 3

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BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)					Weapon System		A. DATE <b>February 1999</b>			
B. APPROPRIATION/BUDGET ACTIVITY <b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>					C. P-1 ITEM NOMENCLATURE <b>JATO (JET ASSISTED TAKE OFF)</b>				SUBHEAD <b>Y1Q7</b>	
Cost Element/ FISCAL YEAR	QUANTITY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF YES WHEN AVAILABLE
Q7040 MK 117 JATO ROCKET MOTOR (H341)										
FY 98	930	3335.00	NAVAIR	N/A	PO	NSWC IH (IH, MD)	Apr-98	Apr-99	YES	
FY 99	340	3387.00	NAVAIR	N/A	PO	UNKNOWN	Apr-99	Apr-00	YES	
FY 00	189	3447.00	NAVAIR	N/A	PO	UNKNOWN	Apr-00	Apr-01	YES	
Q7050 MK 125 RATO (H311)										
FY 98	72	3902.78	NSWC IH	Jan-98	C/FP	UNIVERSAL PROP.	Apr-98	Apr-99	YES	
FY 99	366	3944.00	NSWC IH	Jan-99	UNK	UNKNOWN	Apr-99	Apr-00	YES	
FY 00	750	4007.00	NSWC IH	Jan-00	UNK	UNKNOWN	Apr-00	Apr-01	YES	
D. REMARKS										
* FY94 Buy was below threshold reprogramming that was combined with FY96 Buy.										

<b>FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21</b>						DATE <b>February 1999</b>											
APPROPRIATION/BUDGET ACTIVITY						Weapon System						P-1 ITEM NOMENCLATURE					
<b>PROCUREMENT OF AMMUNITION, NAVY &amp; MARINE CORPS</b>												<b>JATOS</b>					
						Production Rate			Procurement Leadtimes								
Item	Manufacturer's Name and Location					MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure			
MK 117 (H341)	NSWC Indian Head, MD					20.8	83.3	166.7		6	12	12	18	EACH			
MK 125 (H311)	UPCO, Phoenix, AZ					41.7	125.0	375.0		6	12	12	18	EACH			

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1999												FISCAL YEAR 2000												B A L	
						1998			CALENDAR YEAR 1999									CALENDAR YEAR 2000													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
Q7040-MK 117 (H341)																															
NSWC IHD	98	N	930	0	930																										0
NSWC IHD	99	N	340	0	340																									170	
NSWC IHD	00	N	189	0	189																									189	
Q7050-MK 125 RATO (H311)																															0
UNK	98	N	72	0	72																									0	
UNK	99	N	366	0	366																									183	
UNK	00	N	750	0	750																									750	

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2001												FISCAL YEAR 2002												B A L	
						2000			CALENDAR YEAR 2001									CALENDAR YEAR 2002													
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P		
Q7040-MK 117 (H341)																															0
NSWC IHD	99	N	340	170	170	170																								0	
	00	N	189	0	189																									0	
Q7050-MK 125 RATO (H311)																															0
UNK	99	N	366	183	183	183																								0	
UNK	00	N	750	0	750																									0	

Remarks: \* Engineering investigation is currently on going.  
Delivery rates are larger than production rates because deliveries are made in batches.



NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION				SUBHEAD NO. A1AC BLIN: 025000	
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	49.1	21.8	15.8	19.6	19.4	19.9	20.3	20.6

ITEM DESCRIPTION/JUSTIFICATION:

This is a round of ammunition (separate loading ammunition) fired from cruiser and destroyer type combatant ships against air, surface and shore targets. There are also numerous barrels located at schools and engineering test sites.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

PRODUCT IMPROVEMENT: The requested funds provide engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION	SUBHEAD NO. A1AC BLIN: 025000
<p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.</p> <p>All ammo procured with these funds is procured through the Single Manager for Conventional Ammunition (SMCA). The most recent SMCA standard/non standard price list has been used in pricing the ammo.</p>			

[illegible]

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 025000			P-1 ITEM NOMENCLATURE 5"/54 GUN AMMUNITION						SUBHEAD NO. A1AC	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AC100 5"/54 BL & P D349 FY 2000UNKNOWNMIPRAMCCOM DRSMCNov-99Mar-00Feb-0212000245.66NOYESJul-99												
NOTE: All items shown are priced with available GFM.												



NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE 5"/62 CAL EXTENDED RANGE GUIDED MUNITION (ERGM)				SUBHEAD NO. A1AK BLIN: 025300	
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	0	27.4	3.0	24.5	45.3	70.4	71.7	97.4

ITEM DESCRIPTION/JUSTIFICATION:

The Extended Range Guided Munition (ERGM) is a key element in providing a near term Naval Surface Fire Support (NSFS) capability. The NSFS mission is to support the U.S. and allied assault landing forces through increased range and accuracy.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION ENGINEERING: Funds requested provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

PRODUCT IMPROVEMENT: The requested funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE 5"/62 CAL EXTENDED RANGE GUIDED MUNITION (ERGM)	SUBHEAD NO. A1AK BLIN: 025300	
<p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.</p> <p>All ammo procured with these funds is procured through the Navy.</p>			

[illegible]



NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE CIWS GUN AMMUNITION				SUBHEAD NO. A1AE BLIN: 026000	
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	0.5	0.7						
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This ammunition is fired by the Phalanx Close-In Weapon System (CIWS) 20MM gatling gun for terminal defense against missiles and aircraft. At the end of FY 99 there will be CIWS systems installed on carriers, cruisers, destroyers, frigates, fast combat support ships (AOE's), amphibious command ships (LCC's), amphibious assault ships (LHA's and LPH's), amphibious transport dock ships (LPD's), landing ship dock ships (LSD's), high endurance cutters (WHEC's), and designated school commands and engineering test sites.</p> <p><u>PROCUREMENT:</u> The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Requested funds provide engineering support for items procured in same fiscal year. Support efforts include analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> The requested funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE CIWS GUN AMMUNITION	SUBHEAD NO. A1AE BLIN: 026000

RENOVATION COMPONENTS: Items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions.

GAUGE: These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.

NON-STANDARD ITEMS: The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.

All ammo procured with these funds is procured through the Single Manager for Conventional Ammunition (SMCA). The most recent SMCA standard/non standard price list has been used in pricing the ammo.

FY 00 and subsequent years are transferred to OSGA P-1 (BLIN: 027000).

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NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION				SUBHEAD NO. A1AF BLIN: 026500	
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	3.4	3.8	7.0	8.8	8.5	8.5	8.6	8.6

ITEM DESCRIPTION/JUSTIFICATION:

The 76MM caliber cartridge is a fixed round of ammunition for use in the MK 75 gun mount. Its primary use is against air targets but it may also be used against surface and shore targets. The weapon system, consisting of the MK 75 gun mount and MK 92 fire control system, has been designated for use on guided missile frigates (FFG's), and United States Coast Guard (USCG) ships. At the end of FY 99 there will be weapon systems installed on FFG's and USCG ships. There are also numerous barrels located at schools and engineering test sites.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION ENGINEERING: Requested funds provide engineering support for items procured in same fiscal year. Support efforts include: analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions which are integral to an item's manufacture.

PRODUCT IMPROVEMENT: The requested funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION	SUBHEAD NO. A1AF BLIN: 026500	
<p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.</p> <p>All ammo procured with these funds is procured through the Single Manager for Conventional Ammunition (SMCA). The most recent SMCA standard/non-standard price list has been used in pricing the ammo.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 026500			P-1 ITEM NOMENCLATURE 76MM GUN AMMUNITION						SUBHEAD NO. A1AF	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AF100												
	76MM BL+P C062											
	FY 1998	CRANE AAA	MIPR	AMCCOM DRSMC	Dec-97	Mar-98	Sep-99	5347	520.96	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Dec-98	Mar-99	Sep-00	3732	757.49	YES	NO	
	FY 2000	UNKNOWN	MIPR	AMCCOM DRSMC	Dec-99	Mar-00	Sep-01	7788	762.52	NO	YES	Jul-99
NOTE: All items shown are priced with available GFM.												

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NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION				SUBHEAD NO. A1AG BLIN: 027000	
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	4.4	4.5	5.8	6.7	7.3	7.6	7.8	7.9
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This program provides ammunition (20MM through 84MM cartridges and rockets) for active Navy ships and for active and reserve ashore warfare forces including mobile construction battalions (MCB's), amphibious construction battalions (ACB's), fleet combat readiness groups, inshore undersea warfare groups, and other operational units.</p> <p><u>PROCUREMENT:</u> The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Requested funds provide engineering support for items procured in same fiscal year. Support efforts include: analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> The requested funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION	SUBHEAD NO. A1AG BLIN: 027000
<p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The specific rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.</p> <p>All ammo procured with these funds is procured through the Single Manager for Conventional Ammunition (SMCA). The most recent SMCA standard/non standard price list has been used in pricing the ammo.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			WEAPONS SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 027000			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION				SUBHEAD NO. A1AG	
Cost Code	Element of Cost	Ident. Code	FY 1998		FY 1999		FY 2000		FY 2001	
			QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AG100										
	25MM CARTRIDGES									
	CTG. 25MM, TP-T, M793	A976					66000	876		
	CTG. 25MM, SAPHEI-T	A991			123750	2467				
	40MM CARTRIDGES (GRENADE)									
	CTG. 40MM, FIXED, PRAC	B576					102464	1411		
	CTG. 40MM, BLANK, SAL (350 & 200)	B650			8532	288	5994	195		
	60MM CARTRIDGES									
	CTG. 60MM, HE	B643	13648	1031	4096	464	18384	1998		
	CTG. 60MM, SMOKE, WP	B646			2384	662				
	CTG. 60MM, ILLUM	B647	4928	2914						
AG200										
	20MM CARTRIDGES									
	CTG. 20MM, PLASTIC DUMMY	AA20					97000	551		
	PE/QA (SMCA)					92		65		
AG830	PRODUCTION ENGINEERING			385		398		573		
AG850	PRODUCT IMPROVEMENT					66		68		
AG892	NON-STANDARD ITEMS			26		20		20		
AG893	RENOVATION COMPONENTS			18		54		55		
AG894	GAUGE REQUIREMENTS			27		28		29		
	TOTAL			4401		4539		5841		

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 027000			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION						SUBHEAD NO. A1AG	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AG100												
25MM CARTRIDGES												
CTG, 25MM, TP-T, M798 A976												
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Apr-00	Jun-01	66000	13.27	NO	YES	Jul-99
40MM CARTRIDGES (GRENADE)												
CTG, 40MM, FIXED, PRACTICE B576												
FY 1992		MILAN AAP	MIPR	AMCCOM DRSMC	Oct-91	Nov-91	Dec-98	34128	9.07	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Jan-00	Oct-01	102464	13.77	NO	YES	Jul-99
CTG, 40MM, BLANK, SAL (350 & 200 GRAMS) B650												
FY 1997		MILAN AAP	MIPR	AMCCOM DRSMC	Oct-96	Jan-97	Dec-98	14652	25.95	YES	NO	
FY 1999		MILAN AAP	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Nov-99	8532	33.70	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Jan-00	Nov-00	5994	32.52	NO	YES	Jul-99
60MM CARTRIDGES												
CTG. 60MM, HE B643												
FY 1995		MILAN AAP	MIPR	AMCCOM DRSMC	Dec-94	Mar-95	Oct-99	25264	82.63	YES	NO	
FY 1998		MILAN AAP	MIPR	AMCCOM DRSMC	Oct-97	Jan-98	Dec-99	13648	75.57	YES	NO	
FY 1999		MILAN AAP	MIPR	AMCCOM DRSMC	Oct-98	Jan-99	Oct-00	4096	113.23	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Jan-00	Oct-01	18384	108.68	NO	YES	Jul-99
NOTE: All items shown are priced with available GFM.												

APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 027000			P-1 ITEM NOMENCLATURE OTHER SHIP GUN AMMUNITION						SUBHEAD NO. A1AG	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AG200												
20MM CARTRIDGES												
CTG, 20MM DUMMY, M51A4N AA20												
FY 1995	LCAAP		MIPR	ARDEC	Jun-96	Sep-96	Jun-98	272941	5.33	YES	NO	
FY 1998	LCAAP		MIPR	ARDEC	Oct-97	Jun-98	Apr-99	54550	5.50	YES	NO	
FY 1999	UNKNOWN		MIPR	ARDEC	Oct-98	Feb-99	Apr-00	99800	5.59	YES	NO	
FY 2000	UNKNOWN		MIPR	ARDEC	Oct-99	Feb-00	Apr-01	97000	5.68	NO	YES	Jul-99
NOTE: All items shown are priced with available GFM.												



NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION				SUBHEAD NO. A1AH BLIN: 033500	
	FY 98	FY 99	FY 00	FY 01	FY02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	7.6	7.7	8.0	8.8	9.0	9.1	9.3	9.5
<p><u>ITEM DESCRIPTION/JUSTIFICATION:</u></p> <p>This program provides ammunition for active Navy ships and for active and reserve ashore warfare forces including: mobile construction battalions (MCB's), amphibious construction battalions (ACB's), fleet combat readiness groups, inshore undersea warfare groups and other operational units.</p> <p><u>PROCUREMENT:</u> The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.</p> <p><u>PRODUCTION ENGINEERING:</u> Funds requested provide engineering support for items procured in same fiscal year. Support efforts include: analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions integral to an item's manufacture.</p> <p><u>PRODUCT IMPROVEMENT:</u> The requested funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p>								

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION	P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION	SUBHEAD NO. A1AH BLIN: 033500	
<p><u>RENOVATION COMPONENTS:</u> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><u>GAUGE:</u> These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, assure correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><u>NON-STANDARD ITEMS:</u> The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.</p> <p>All ammo procured with these funds is procured through the Single Manager for Conventional Ammunition (SMCA). The most recent SMCA standard/non standard price list has been used in pricing the ammo.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 033500			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION						SUBHEAD NO. A1AH	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AH100												
5.56MM CARTRIDGES												
CTG. 5.56MM, TRACER, M856 A063												
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Dec-99	Nov-00	253400	0.55	NO	YES	Jul-00
7.62MM CARTRIDGES												
CTG. 7.62MM BALL, LINKED M80 A143												
FY 1998		LCAAP	MIPR	AMCCOM DRSMC	Oct-97	Dec-97	Nov-98	1000000	0.56	YES	NO	
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Mar-99	Nov-99	1500000	0.42	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Dec-99	Nov-00	1047900	0.41	NO	YES	Jul-99
CTG. 7.62MM DIM TRACE M80/M276 A257												
FY 1998		LCAAP	MIPR	AMCCOM DRSMC	Oct-97	Jan-98	Nov-98	3500000	0.55	YES	NO	
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Mar-99	Nov-99	2047500	0.39	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Dec-99	Nov-00	479400	0.38	NO	YES	Jul-99
CTG. 7.62MM MATCH AA11												
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Mar-99	Nov-99	600000	0.52	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Dec-99	Nov-00	420000	0.55	NO	YES	Jul-99
NOTE: All items shown are priced with available GFM.												

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 033500			P-1 ITEM NOMENCLATURE SMALL ARMS AND LANDING PARTY AMMUNITION						SUBHEAD NO. A1AH	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AH100 CONTINUED 9MM CARTRIDGES CTG. 9MM BALL A363 FY 1998 OLIN CORPORATION MIPR AMCCOM DRSMC Oct-97 Feb-98 Nov-98 7554000 0.15 YES NO FY 1999 UNKNOWN MIPR AMCCOM DRSMC Oct-98 Mar-99 Aug-99 10000000 0.14 YES NO FY 2000 UNKNOWN MIPR AMCCOM DRSMC Oct-99 Feb-00 Aug-00 2000000 0.11 NO YES Jul-99  .45 CAL CARTRIDGES CTG. .45 CAL, BALL, M1911, MAT A483 FY 2000 UNKNOWN MIPR AMCCOM DRSMC Oct-99 Feb-00 Aug-00 460500 0.19 NO YES Jul-99  .50 CAL CARTRIDGES CTG. .50 CAL, LINKED & TRACER A557 FY 1997 LCAAP MIPR AMCCOM DRSMC Oct-96 Feb-97 Nov-98 87000 2.39 YES NO FY 2000 UNKNOWN MIPR AMCCOM DRSMC Oct-99 Dec-99 Nov-00 572000 1.67 NO YES Jul-99  CTG. .50 CAL. MK 211, APIT, M2 AA06 FY 1998 OLIN CORPORATION MIPR AMCCOM DRSMC Oct-97 Dec-97 Nov-98 364600 3.09 YES NO FY 1999 UNKNOWN MIPR AMCCOM DRSMC Oct-98 Mar-99 Nov-99 1078600 3.18 YES NO FY 2000 UNKNOWN MIPR AMCCOM DRSMC Oct-99 Dec-99 Nov-00 771200 6.00 NO YES Jul-99												
NOTE: All items shown are priced with available GFM.												

NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET				(DOD EXHIBIT P-40)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL				SUBHEAD NO. A1AJ BLIN: 034000	
	FY 98	FY 99	FY 00	FY 01	FY 02	FY 03	FY 04	FY 05
QUANTITY								
COST (In Millions \$)	10.0	8.9	8.2	8.4	8.5	8.8	9.0	9.2

ITEM DESCRIPTION/JUSTIFICATION:

This program provides pyrotechnics and demolition materials for all active naval vessels, amphibious and mobile construction battalions, mobile diving and salvage units, cargo handling and port groups, naval security groups, fleet composite operational readiness groups (formerly beachjumper unit (BJU's)) and explosive ordnance disposal groups/mobile units/detachments/teams. This program also provides materials to support the ship shock test program.

Pyrotechnics are required to support the surface, air, ground, and underwater Navy requirements. These items consist of illumination, signalling, identification, and location devices using flare or smoke as the primary signalling agent. Pyrotechnics are used for training, combat exercises, submarine rescue and personnel search and rescue operations. Demolitions consist of explosive devices and accessories and are required for fleet units to perform training functions and operations/requirements. Fleet requirements are based upon CNO approved allowance lists for special needs on a case-by-case basis and worldwide fleet expenditures.

PROCUREMENT: The funds are required to procure components, load and assemble complete rounds and conduct acceptance tests.

PRODUCTION ENGINEERING: Requested funds provide engineering support for items procured in same fiscal year. Support efforts include: analysis of producibility and production operations; preparation, test and technical evaluation of engineering changes to correct deficiencies in the production item; preparation, test and technical evaluation of waivers and deviations; value engineering; review and evaluation of production design data and documentation; production configuration control; and other related engineering functions integral to an item's manufacture.



NAVMAT FORM 7110.1	PROCUREMENT AMMUNITION, NAVY & MARINE CORPS BUDGET ITEM JUSTIFICATION SHEET	(DOD EXHIBIT P-40)	FEBRUARY 1999
BUDGET ACTIVITY 1 NAVY AMMUNITION		P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION MATERIAL	SUBHEAD NO. A1AJ BLIN: 034000
<p><b>PRODUCT IMPROVEMENT:</b> The requested funds support engineering services and related efforts by the producing contractor or manufacturing installation to extend the useful military life of an item or to improve the item within the current performance envelope. Typically, such improvements take advantage of newly developed materials, progress in the state-of-the-art, improved design and other technical advances to provide improved safety, reduced environmental impact, improved reliability/maintainability/availability, decreased cost, and/or correction of deficiencies exclusive of contractual specifications.</p> <p><b>RENOVATION COMPONENTS:</b> The items purchased with funds identified for renovation components will be used to upgrade unserviceable rounds to ready-for-issue condition. The rounds to be renovated will be those with the lowest asset readiness positions.</p> <p><b>GAUGE:</b> These funds are required to procure gauges and test equipment necessary to check critical dimensions/parameters of ammunition items and their parts. This quality control is necessary to ensure proper mating of parts and subassemblies, correct interfacing between the ammunition and guns, and proper ammunition performance.</p> <p><b>NON-STANDARD ITEMS:</b> The non-standard line supports procurement of ammunition training aids and initial procurement of required non-type classified munition items.</p> <p>All ammo procured with these funds is procured through the Single Manager for Conventional Ammunition (SMCA). The most recent SMCA standard/non-standard price list has been used in pricing the ammo.</p>			

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			WEAPONS SYSTEM COST ANALYSIS				(DOD EXHIBIT P-5)		FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION			NARM CODE 034000		P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION				SUBHEAD NO. A1AJ	
Cost Code	Element of Cost	Ident. Code	FY 1998		FY 1999		FY 2000		FY 2001	
			QTY	Total Cost	QTY	Total Cost	QTY	Total Cost	QTY	Total Cost
AJ100										
	SIGNALS									
	SIGNAL KIT, PERS DISTRESS	L118	14790	449						
	SIGNAL, HAND FIRED KIT, VARIATION	L131	7140	142						
	SIGNAL, ILLUM, MARINE, RED	L191	20688	2048	9480	936				
	SIGNAL, ILLUM, MARINE, YELLOW	L192	20688	2048	6744	668				
	SIGNAL, ILLUM, MARINE RED STA	L193	13344	959	6744	501				
	SIGNAL, SMOKE, MK 2, RED ROCKET	L201	9768	702						
	MARKER, LOCATION, SUB, MK 66/21, RED	L266			1500	900				
	SIGNAL, SMOKE ILLUM, MARINE, DISTRESS	L283					30024	1170		
	MINE CHARGES AND CHARGE CUTTERS									
	LIGHTWEIGHT DISPOSABLE DISRUPTOR	LIDD								
	CHG, DML, BLK, COMP C-4, 1.25/2.5 LB	M023								
	CHG, ASSY, DEML, M183/37	M757								
	MAIN CHARGE DISRUPTOR	MCD					6500	235		
	CHG, DEML, SHAPED, FLEX-LIN (300)	ML16			1500	59				
	CHG, BOOSTER, 20 GM, MK 140	MM30			20160	29				
	SUBTOTAL			6348		3093		1405		

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION						SUBHEAD NO. A1AJ	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AJ100												
SIGNALS												
SIGNAL, SMOKE ILLUM, MARINE, DISTRESS L283												
FY 1997		MARTIN ELECTRONICS	MIPR	AMCCOM DRSMC	Oct-96	Apr-97	Jan-00	30024	38.79	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Apr-00	Aug-01	30024	38.96	NO	YES	Jul-99
MINE CHARGES AND CHARGE CUTTERS												
MAIN CHARGE DISRUPTOR MCD												
FY 2000		UNKNOWN	MIPR	NSWC CRANE	Oct-99	Feb-00	Oct-01	6500	36.14	NO	YES	Jul-99
DET CORDS, CAPS, AND FUZES												
FIRING DEVICE, MK 59 MN44												
FY 2000		UNKNOWN	MIPR	NSWC CRANE	Oct-99	Jan-00	May-01	830	1030.00	NO	YES	Jul-99
CAP, BLASTING, NON-ELEC, M7 M131												
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Apr-00	Feb-01	23000	4.19	NO	YES	Jul-99
CORD, DETONATING, PRIMACORD, PETN M456												
FY 1997		ENSIGN BICKFORD	MIPR	AMCCOM DRSMC	Oct-96	Aug-97	Jun-98	300000	0.16	YES	NO	
FY 1999		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Apr-99	Nov-99	448000	0.14	YES	NO	
FY 2000		UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Apr-00	Nov-00	800000	0.15	NO	YES	Jul-99
NOTE: All items shown are priced with available GFM.												

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APPROPRIATION PROCUREMENT AMMUNITION, NAVY & MARINE CORPS			PROCUREMENT HISTORY & PLANNING					(DOD EXHIBIT P-5A)			FEBRUARY 1999	
BUDGET ACTIVITY 1 NAVY AMMUNITION		NARM CODE 034000			P-1 ITEM NOMENCLATURE PYROTECHNICS AND DEMOLITION						SUBHEAD NO. A1AJ	
COST CODE	ELEMENT OF COST FISCAL YEAR	CONTRACTOR AND ADDRESS	CONTRACT METHOD AND TYPE	P/R CONTRACTED BY	RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW/WHEN	ARE SPECS REVS REQUIRED	IF YES WHEN AVAIL
AJ100	CONTINUED											
	DET CORDS, CAPS, AND FUZES CONTINUED											
	BLASTING CAP, ELEC, MK 11 ML83											
	FY 1995	STRESAU LABORATORY	CONTRACT	NSWC IH	Oct-94	Sep-97	Jan-99	26022	34.92	YES	NO	
	FY 1996	STRESAU LABORATORY	CONTRACT	NSWC IH	Oct-95	Sep-97	Jan-99	5640	41.93	YES	NO	
	FY 1997	STRESAU LABORATORY	CONTRACT	NSWC IH	Oct-96	Sep-97	Jan-99	3338	41.93	YES	NO	
	FY 2000	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Apr-00	Feb-01	34360	29.86	NO	YES	Jul-99
	ACOUSTIC FIRING SYSTEM NZZZ											
	FY 1999	UNKNOWN	CONTRACT	NSWC CRANE	Oct-98	Feb-99	Oct-00	782	3466.20	YES	NO	
	FY 2000	UNKNOWN	CONTRACT	NSWC CRANE	Oct-99	Feb-00	Oct-01	427	4007.88	NO	YES	Jul-99
	SHOCK TEST CHARGES											
	SHOCK TEST CHARGE, 320 LB 9W50											
	FY 2000	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Jan-00	Jun-01	30	6813.90	NO	YES	Jul-99
	SHOCK TEST CHARGE, 60 LB XW65											
	FY 1997	CRANE AAA	MIPR	AMCCOM DRSMC	Jan-97	Feb-97	Dec-98	100	1099.93	YES	NO	
	FY 1999	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-98	Mar-99	Jun-00	155	1459.94	YES	NO	
	FY 2000	UNKNOWN	MIPR	AMCCOM DRSMC	Oct-99	Jan-00	Jun-01	250	1620.22	NO	YES	Jul-99
NOTE: All items shown are priced with available GFM.												

CLASSIFICATION:

<b>BUDGET ITEM JUSTIFICATION SHEET</b>						<b>DATE:</b>						
<b>P-40</b>						<b>February 1999</b>						
<b>APPROPRIATION/BUDGET ACTIVITY</b> <b>PROCUREMENT OF AMMUNITION, NAVY/MARINE CORPS</b> <b>BA-1: NAVY AMMUNITION</b>						<b>P-1 ITEM NOMENCLATURE/LINE ITEM #</b>  <b>MINE NEUTRALIZATION DEVICES/035000</b>						
<b>Program Element for Code B Items:</b>						<b>OTHER RELATED PROGRM ELEMENTS</b> <b>N/A</b>						
	<b>Prior Years</b>	<b>ID Code</b>	<b>FY 1998</b>	<b>FY 1999</b>	<b>FY 2000</b>	<b>FY 2001</b>	<b>FY 2002</b>	<b>FY 2003</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>To Complete</b>	<b>Total</b>
<b>QUANTITY</b>												
<b>EQUIPMENT COST (In Millions)</b>	<b>N/A</b>	<b>A</b>	<b>\$6.2</b>	<b>\$7.8</b>	<b>\$9.2</b>	<b>\$9.5</b>	<b>\$9.2</b>	<b>\$9.4</b>	<b>\$9.6</b>	<b>\$9.8</b>	<b>N/A</b>	<b>\$70.7</b>
<b>SPARES COST (In Millions)</b>	<b>N/A</b>	<b>A</b>	<b>\$0.5</b>	<b>\$0.8</b>	<b>\$0.5</b>	<b>\$0.8</b>	<b>\$0.5</b>	<b>\$0.5</b>	<b>\$0.5</b>	<b>\$0.5</b>	<b>N/A</b>	<b>\$4.6</b>
<b>PROGRAM DESCRIPTION/JUSTIFICATION:</b>												
<p>Mine Neutralization Devices are utilized in conjunction with minehunting systems to destroy mines that cannot be countered by normal minesweeping techniques. Once the mine is physically located, an explosive charge is placed in close proximity to neutralize the mine.</p> <p>The Mine Neutralization System (MNS) was granted Approval for Full Rate Production in August 1991. The MNS is the primary weapon system for the MCM and MHC class ships. The Mine Neutralization Vehicle can drop a MK57 Destructor charge (MP-2) near a bottom mine to neutralize it. The vehicle is also capable of attaching a MK 26 Cable Cutter (MP-1) to a Moored Mine. MP-3 utilizes a modified MK 26 (MP-1) cable cutter and a MK57 Destructor (MP-2) together with floats to neutralize moored mines in place.</p>												



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<b>BUDGET PROCUREMENT HISTORY AND PLANNING EXHIBIT (P-5A)</b>					<b>Weapon System</b>		<b>A. DATE</b> February 1999			
<b>B. APPROPRIATION/BUDGET ACTIVITY</b> Procurement of Ammunition, Navy/Marine Corps <b>BA-1: NAVY AMMUNITION</b>					<b>C. P-1 ITEM NOMENCLATURE</b> MINE NEUTRALIZATION DEVICES				<b>SUBHEAD</b> 71U4	
Cost Element/ FISCAL YEAR	QTY	UNIT COST (000)	LOCATION OF PCO	RFP ISSUE DATE	CONTRACT METHOD & TYPE	CONTRACTOR AND LOCATION	AWARD DATE	DATE OF FIRST DELIVERY	SPECS AVAILABLE NOW	IF NO WHEN AVAILABLE
<u>FISCAL YEAR (98)</u> U4005/MK 57 BOMBLET U4077/MP-3 DEVICE	110 190	17.3 12.9	NAVSEA NAVSEA	12/97 12/97	C/FFP C/FFP	UNKNOWN UNKNOWN	06/98 06/98	12/99 12/99	YES YES	
<u>FISCAL YEAR (99)</u> U4005/MK 57 BOMBLET U4007/MP-3 DEVICE	146 210	17.6 13.1	NAVSEA NAVSEA	12/97 12/97	C/FFP C/FFP	UNKNOWN UNKNOWN	12/98 12/98	06/00 06/00	YES YES	
<u>FISCAL YEAR (00)</u> U4005/MK 57 BOMBLET U4007/MP-3 DEVICE	131 125	17.9 28.5	NAVSEA NAVSEA	03/99 03/99	C/FFP C/FFP	UNKNOWN UNKNOWN	12/99 12/99	06/01 06/01	YES YES	
<b>D. REMARKS</b>										
<div style="border: 1px solid black; padding: 5px;"> <p>* Delivery dates shown are for complete Destructor MK 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices MK 35 by NSWC, Indian Head Division.</p> </div>										

FY 1998/99 BUDGET PRODUCTION SCHEDULE, P-21							DATE February 1999			
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY/MARINE CORPS					Weapon System		P-1 ITEM NOMENCLATURE MINE NEUTRALIZATION DEVICES			
		Production Rate			Procurement Leadtimes					
Item	Manufacturer's Name and Location	MSR	1-8-5	MAX	ALT Prior to Oct 1	ALT After Oct 1	Initial Mfg PLT	Reorder Mfg PLT	Total	Unit of Measure
MK 57 BOMBLET	UNKNOWN	10	15	25	0	3	18	12	21	EACH
MP-3 DEVICE	UNKNOWN	20	30	40	0	3	18	12	21	EACH

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 1998												FISCAL YEAR 1999												B A L				
						1997			CALENDAR YEAR 1998									CALENDAR YEAR 1999																
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					
MK57 BOMBLET/TOLO INC*	98	EA	110	0	110										A																			110
MK57 BOMBLET/UNKNOWN*	99	EA	146	0	146																						A							146
MK57 BOMBLET/UNKNOWN*	00	EA	131	0	131																												131	
MP-3 DEVICE/NOC/IHDIV	98	EA	190	0	190										A																		190	
MP-3 DEVICE/UNKNOWN	99	EA	210	0	210																							A						210
MP-3 DEVICE/UNKNOWN	00	EA	125	0	125																												125	

  

ITEM / MANUFACTURER	F Y	S V C	Q T Y	D E L	B A L	FISCAL YEAR 2000												FISCAL YEAR 2001												B A L			
						1999			CALENDAR YEAR 2000									CALENDAR YEAR 2001															
						O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P				
MK57 BOMBLET/TOLO INC*	98	EA	110	0	110			19	19	19	19	21	13																				0
MK57 BOMBLET/UNKNOWN*	99	EA	146	0	146									17	17	17	17	17	17	17	17	12	10	6								0	
MK57 BOMBLET/UNKNOWN*	00	EA	131	0	131			A																			11	11	11	11		87	
MK57 BOMBLET/UNKNOWN*	01	EA	140	0	140															A												0	
MP-3 DEVICE/NOC/IHDIV	98	EA	190	0	190			32	32	32	32	31	31																			0	
MP-3 DEVICE/UNKNOWN	99	EA	210	0	210									18	18	18	18	18	18	18	18	18	15	15							0		
MP-3 DEVICE/UNKNOWN	00	EA	125	0	125			A																		11	11	11	11		81		
MP-3 DEVICE/UNKNOWN	01	EA	125	0	125															A												0	

Remarks: \*Delivery dates shown are for complete Destructor MK 57. Final delivery includes successful completion of lot acceptance testing, explosive loading of cases and production of Firing Devices MK 35 by NSWC IHDIV.

DD Form 2445, JUL 87 Previous editions are obsolete P-1 SHOPPING LIST  
 311 / 244 ITEM NO 18      PAGE 5 Exhibit P-21 Production Schedule

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BUDGET ITEM JUSTIFICATION SHEET P-40						DATE:  February 1999						
APPROPRIATION/BUDGET ACTIVITY PROCUREMENT OF AMMUNITION, NAVY & MARINE CORPS						P-1 ITEM NOMENCLATURE Ammunition less than \$5 million (Y1Q6)						
Program Element for Code B Items:						Other Related Program Elements						
	Prior Years*	ID Code	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total
QUANTITY												
COST (In Millions)		A			\$2.2	\$1.3	\$1.4	\$1.4	\$1.4	\$1.4	Continuing	Continuning
Beginning FY 2000 Marine Location Markers is under the heading of Ammunition less than \$5 million												
Marine Location Markers												
These items include both air-launched and hand-launched pyrotechnic devices. The aircraft launched units visually assist locating sonobouys during anti-submarine operations. The hand launched units are used in a variety of situations which require a "marked spot" on the water surface, including man-overboard drills. The MK 58 was designed for day or night use in any condition calling for long burning, smoke and flame reference-point marking on the ocean. It produces yellow flame and white smoke for 40-60 minutes which is visible for at least three miles under normal operating conditions. The MK 25 is designed to launch from aircraft (primary) or surface craft to provide day/night reference-points in marking the course of enemy contacts. It is suitable for any type sea surface reference point marking that calls for both smoke and flame for approximately fifteen minutes.												
The current budget profile provides funding for support efforts (PES, ILS), procurement of non-standard items, renovation components, and product improvement programs (PIPs) for future procurements. Funds for PIP are required to: complete design and testing for electirc match to replace the Squib, and design and incorporate an arming switch as an additional safety feature in each marker configuration. Some minor hardware/material changes will be made at the same time for cost and ease of manufacture considerations.												
The significant increase in funding from FY 1998 to FY 1999 and out is associated with the procurement of new MK 58 units.												
*Reflects FY95 only, these programs were funded in FY94 and prior from the Weapons Procurement, Navy (WPN) and Other Procurement Navy (OPN) accounts.												
FY 98/99 and prior funded under the Procurement of Ammunition, Navy and Marine Corp (PANMC) Line Item 9, Marine Location Markers.												
			FY98	FY99	FY00	FY01	FY02	FY03	FY04	FY05		
NAVY RESERVE (FY99-05 is below 26K)			\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0		

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PAGE NO. 2

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